# Service Manual

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ORDER NO. ITD0111013C2

# Service Manual

High Definition Plasma Display

- TH-50PHD30BX/TH-50PHD30EX/TH-50PHW30BX/TH-50PHW30EX

GPH3D Chassis



Specifications

| | |
|---|---|
| Power Source: | AC220 - 240V 50/60Hz |
| Power Consumption: | 530 W |
| | 3.0W (stand-by condition) |
| | 1.4W (Power off condition) |
| Plasma Display panel: | Drive method AC type |
| | 50-inch, 16:9 aspect ratio |
| Contrast Ratio | 3000:1 |
| Brightness Capability | (Panel only) 500 cd/ m2 |
| | (As a set) 300 cd/ m2 |
| Screen size: | 1106 mm (W)×622 mm (H)×1269 mm (diagonal) |
| | No. of pixels |
| | 1,049,088 (1366 (W)×768 (H)) [4,098×768 dots] |
| Operating condition: | |
| Temperature | 0°C - 40°C |
| Humidity | 20% - 80% |
| Applicable signals: | |
| Color System | NTSC, PAL, PAL60, SECAM, Modified NTSC |
| Scanning format | 525i (480i), 625i (576i), 525p (480p), 750p (720p), 1125/60i, 50i, 24p, 24SF (1080/60i, 50i, 24p, 24SF).....SMPTE274M |
| PC signals | XGA display |
| | VGA, SVGA |
| | SXGA, UXGA (compressed) |
| | Horizontal scanning frequency 15.5 - 110kHz |
| | Vertical scanning frequency 48 - 120Hz |

| | |
|---|---|
| Connection terminals: | |
| PC | |
| (HIGH-DENSITY D-SUB15PIN) | R,G,B/0.7 Vp-p (75-ohm) |
| | HD, VD/1.0 - 5.0 Vp-p (high impedance) |
| AUDIO IN (M3.5 JACK) | 0.5Vrms (high impedance) |
| SERIAL | |
| EXTERNAL CONTROL TERMINAL (D-SUB9PIN) | RS-232C COMPATIBLE |
| SPEAKERS (6Ω) | 16W [8 W×8 W] (10% THD) |
| | For TY-SP50PHD3W only |
| Dimensions (W×H×D): | 1210 mm 724mm 8 mm |
| Weight (Mass) | approx. 45.0 kg (main unit only) |
| | approx. 49.6 kg (with speakers) |

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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# 1 Safety Precautions

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1.1 General Guidelines

1.2 Touch-Current Check

TOP PREVIOUS NEXT

# 1.1 General Guidelines

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1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.

3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

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# 1.2 Touch-Current Check

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1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.

2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.

3. Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.

4. Check each exposed metallic part, and measure the voltage at each point.

5. Reserve the AC plug in the AC outlet and repeat each of the above measure.

6. The potential at any point (TOUGH CURRENT) expressed as voltage U1 and U2, does not exceed the following values:

   For a. c.: U1 = 35 V (peak) and U2 = 0.35 V (peak);

   For d. c.: U1 = 1.0 V,

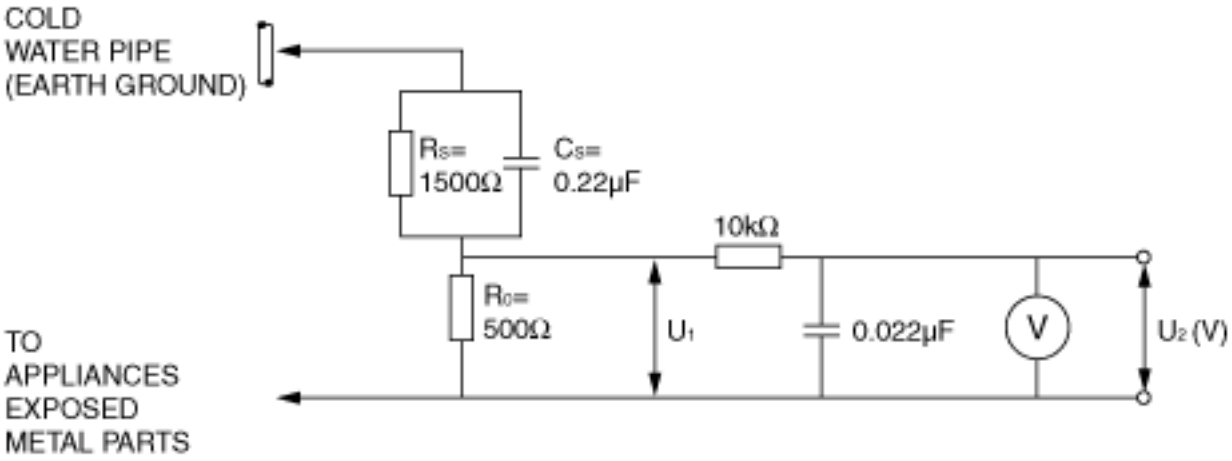
   Note:

   The limit value of U2 = 0.35 V (peak) for a. c. and U1 = 1.0 V for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.

   The limit value U1 = 35 V (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz.

7. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

Figure 1. Measuring network for TOUCH CURRENTS




Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: ≥ 1 MΩ
Input capacitance: ≤ 200 pF
Frequency range: 15 Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

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# 2 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

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Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

# IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

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# 3 PCB structure sheet of GPH3D chassis

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| Board | Part Number | Remark |
|---|---|---|
| C1 | TNPA1914 | COMMON 1 |
| C2 | TNPA1915 | COMMON 1 |
| C3 | TNPA1916 | COMMON 1 |
| C4 | TNPA1917 | COMMON 1 |
| C5 | TNPA1918 | COMMON 1 |
| C6 | TNPA1919 | COMMON 1 |
| C7 | TNPA1993 | COMMON 1 |
| C8 | TNPA2277 | COMMON 1 |
| D | TZTNP01KESE | |
| F | TXN/F10HAS | COMMON 1 |
| H3 | TNPA1756AB | COMMON 1 |
| HX | TZTNP02KESE | COMMON 2 |
| J | TNPA2244N | COMMON 2 |
| P1 | TXNP11KESE | COMMON 1 |
| P3 | TNPA1907AC | COMMON 1 |
| P4 | TNPA1908 | COMMON 1 |
| P5 | TNPA1909AC | COMMON 1 |
| P6 | TNPA1910AC | COMMON 1 |
| P7 | TNPA1911AC | COMMON 1 |
| P8 | TNPA1912AC | COMMON 1 |
| P9 | TNPA1906AC | COMMON 1 |
| S1 | TNPA1784 | COMMON 1 |
| SC | TNPA1922 | COMMON 1 |
| SD | TNPA1921 | COMMON 1 |
| SS | TNPA1923 | COMMON 1 |
| SS2 | TNPA1924 | COMMON 1 |
| SS3 | TNPA1925 | COMMON 1 |
| SU | TNPA1920 | COMMON 1 |
| T12 | TNPA2373 | |
| V1 | TNPA2282AB | COMMON 2 |

## Note

COMMON 1: COMMON parts with model TH-50PHW3, 50PHD3 series.

COMMON 2: COMMON parts with model TH-42PW4, 42PWD4 series.

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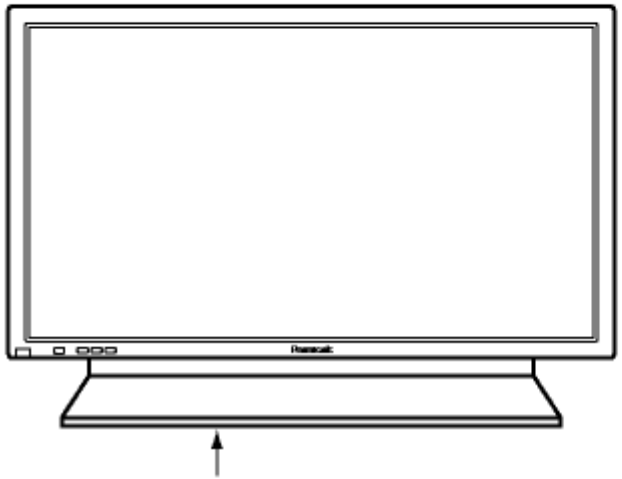
# 4 Service Hint

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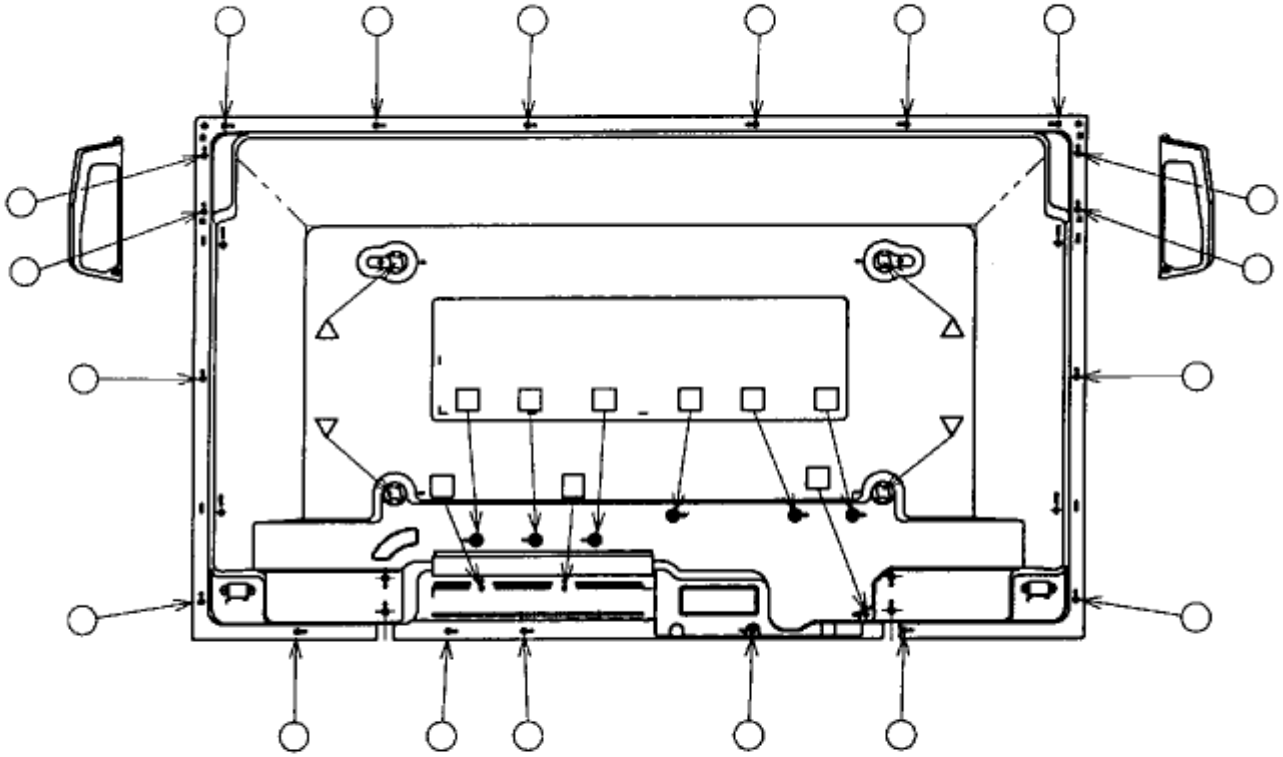
Remove the Back Cover

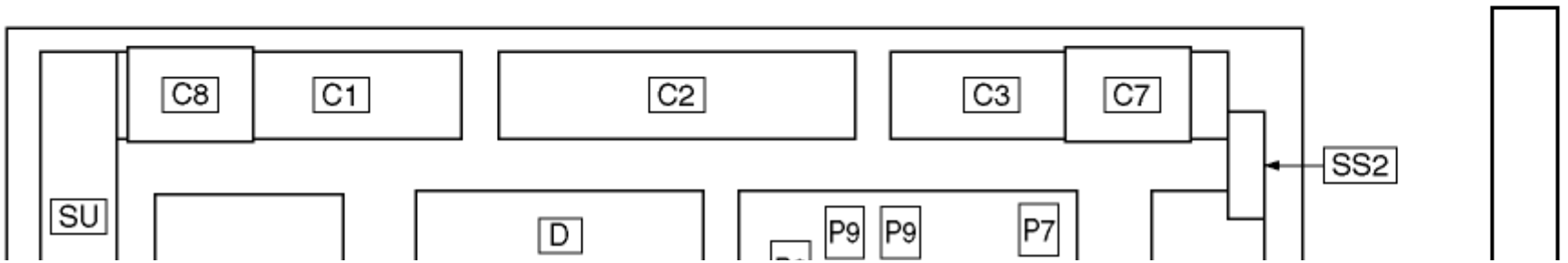
○-----XYN4+F38FZ (19)
△-----XYN8+F20FZ (4)
□-----THEL023Z (9)

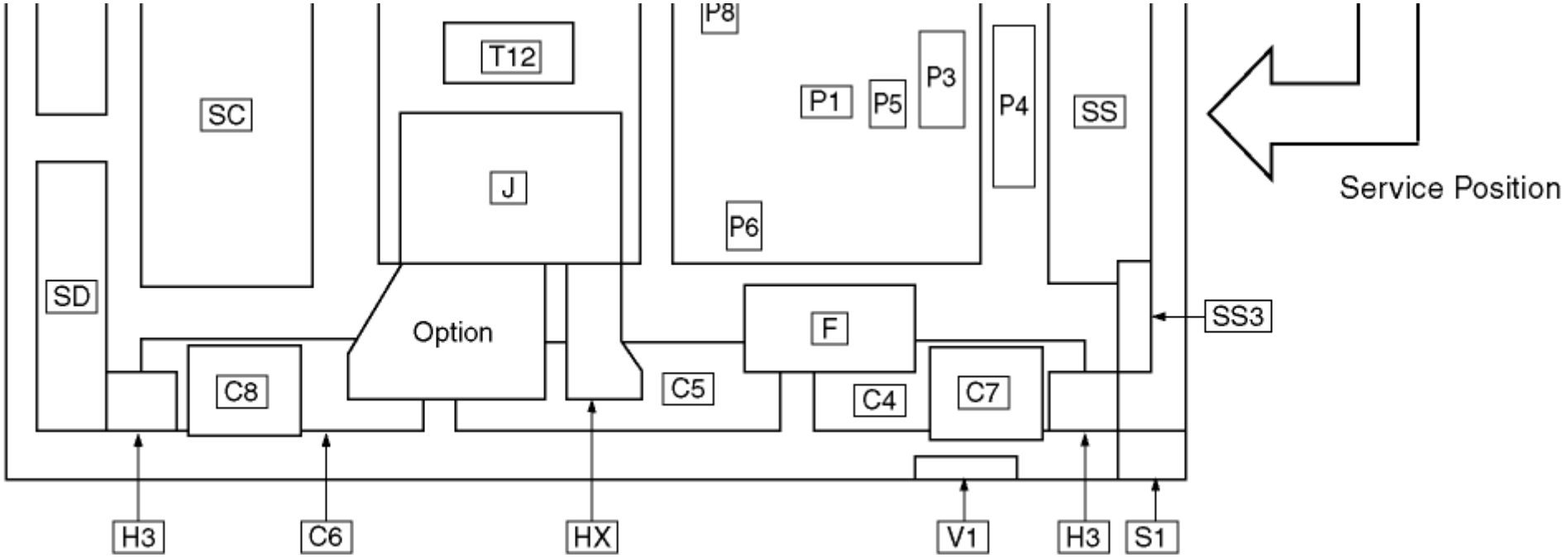
Stand the Unit used for Optional Accessory



Optional Accessory
(Pedestal)








| Baord name | Function | Board name | Function |
|---|---|---|---|
| C1 | Data connector (Upper Left) | P4 | Scan voltage |
| C2 | Data connector (Upper Center) | P5 | Processing voltage control |
| C3 | Data connector (Upper Right) | P6 | PFC oscillator |
| C4 | Data connector (Lower Left) | P7 | High Voltage protect |
| C5 | Data connector (Lower Center) | P8 | Low Voltage protect |
| C6 | Data connector (Lower Right) | P9 | Regulator |
| C7 | Energy recovery | S1 | Power switch |
| C8 | Energy recovery | SC | Scan drive |
| D | Digital process & control | SD | Scan drive output (Lower) |
| F | Line Filter | SS | Sustain drive |
| J | Video processor/Audio Out | SS2 | Sustain connection (Upper) |
| HX | PC input terminal | SS3 | Sustain connection (Lower) |
| H3 | Speaker terminal | SU | Scan drive output (Upper) |
| P1 | Main Power supply | T12 | Digital Buffer |
| P3 | Sustain voltage control | V1 | Front switch & Remote Receiver |

Option

| Model No. | Function | Model No. | Function |
|---|---|---|---|

| | | | |
|---|---|---|---|
| TY-42TM4Y | BNC type input terminal | TY-42TM4Z | RCA type input terminal |

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# 5 Adjustment Procedure

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5.1 +B Set-up

5.1.1 Item/ Preparation

5.1.2 Adjustments

5.2 Driver Set-up

5.2.1 Item/ Preparation

5.2.2 Adjustments

5.3 Initialization Pulse Adjust

5.4 P.C.B. (Printed Circuit Board) exchange

5.4.1 Caution

5.4.2 Quick adjustment after P.C.B. exchange

5.5 Adjustment Volume Location

5.6 Test Point Location

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# 5.1 +B Set-up

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5.1.1 Item/ Preparation

5.1.2 Adjustments

TOP PREVIOUS NEXT

# 5.1.1 Item/ Preparation

TOP PREVIOUS NEXT

1. Input a Grey scale signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Normal

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# 5.1.2 Adjustments

TOP PREVIOUS NEXT

Adjust and confirm indicated test point for the specified voltage.

| Test point | Voltage | Volume | Name |
|---|---|---|---|
| P4 pin 1 (Hot) | 400V ±1V | R548 | PFC |
| Confirmation (Cold) | | | |
| P27 pin 5 | 16V ±0.5V | | +15V |
| D5 pin 1 | 14V ±0.5V | | +13.5V |
| D5 pin 5 | 5.2V ±0.3V | | +5.25V |
| D5 pin 8 | 3.6V ±0.2V | | +3.65V |
| D7 pin 4 | 5V ±0.3V | | STB5V |

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# 5.2 Driver Set-up

TOP PREVIOUS NEXT

5.2.1 Item/ Preparation

5.2.2 Adjustments

TOP PREVIOUS NEXT

# 5.2.1 Item/ Preparation

TOP PREVIOUS NEXT

1. Input an APL 100 % white signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

   Aspect: 16:9

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# 5.2.2 Adjustments

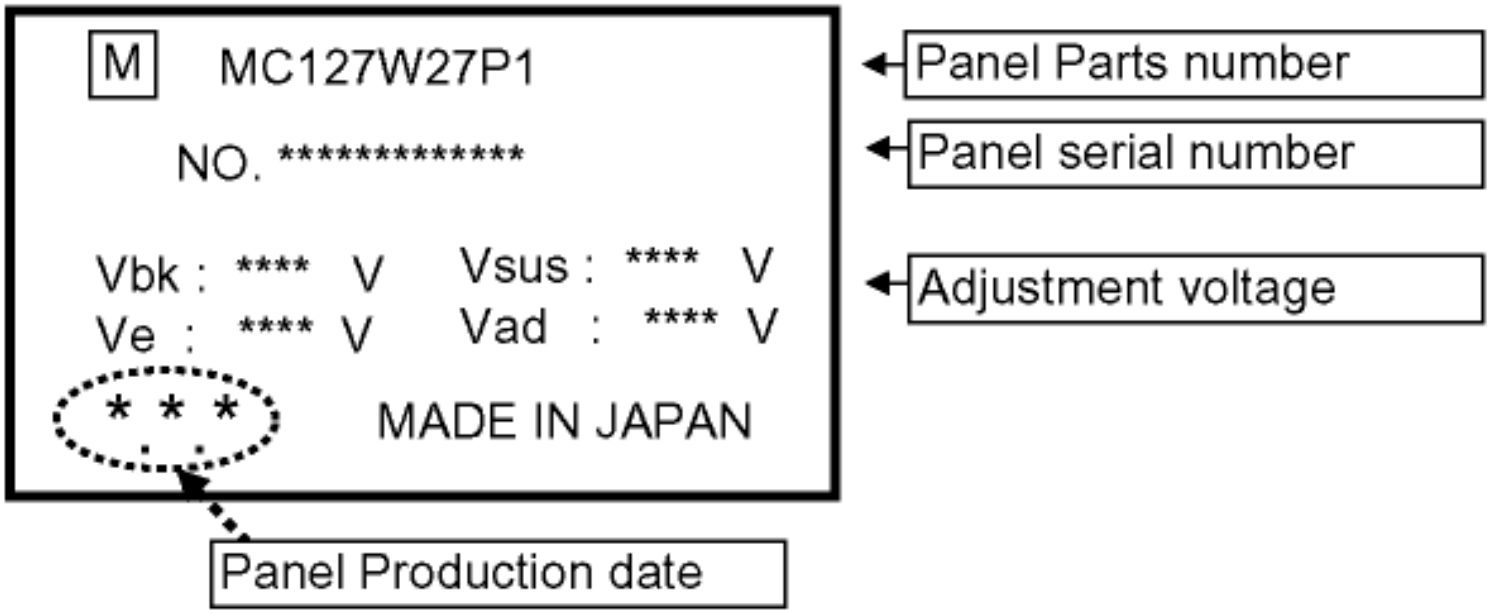
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Adjust driver section voltages referring the panel data on the panel data label.

| Test point | Voltage | Volume | Name |
|---|---|---|---|
| TPVSUS (SS-BOARD) | VSUS ±1V* | R639(P3-BOARD) | Vsus |
| TPVBK (SC-BOARD) | VBK ±1V* | R513(P1-BOARD) | Vbk |
| TPVE (SS-BOARD) | VE ±0.5V* | R6829(SS-BOARD) | Ve |
| TPVSET (SC-BOARD) | 224 V ±1V | R6490(SC-BOARD) | Vset |
| TPVAD (SC-BOARD) | VAD ±1V* | R960(P4-BOARD) | Vad |
| L6604 (SC-BOARD) | 120 + (Vad) ±0.5V | R967 (P4-BOARD) | Vscan |

*See the Panel label.

## Panel Label information




## Panel Production date

For Example

| 1 . | 7 . | 1 | -- > Beg. of July, 2001 |
|---|---|---|---|
| Year | Month | | |
| | | 1 | Beginning of Month (1-10) |
| | | 2 | Middle of Month (11-20) |
| | | 3 | End of Month (21-31) |
| | 1 | January | |
| | 2 | February | |
| | 3 | March | |
| | : | : | |
| | 9 | September | |
| | O | October | |
| | N | November | |
| | D | December | |
| 9 | 1999 | | |
| 0 | 2000 | | |
| 1 | 2001 | | |
| : | | | |

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# 5.3 Initialization Pulse Adjust

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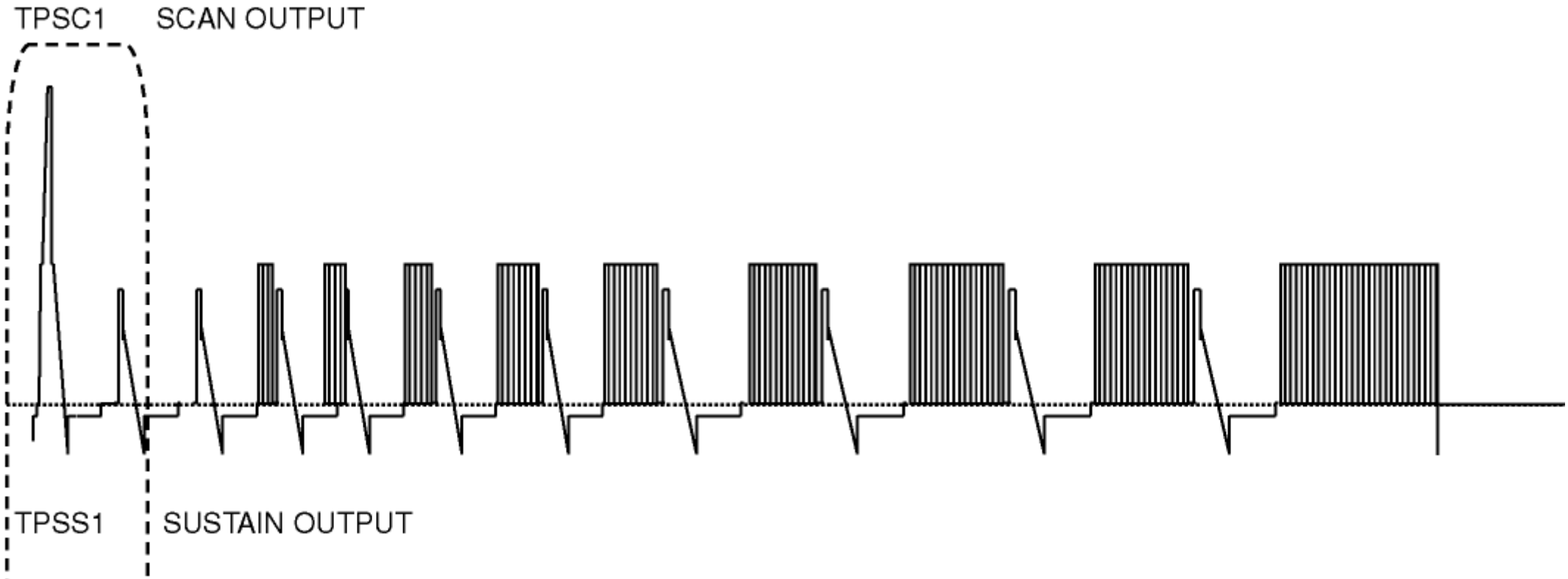
1. Input a Cross hatch signal.
2. Set the picture controls: -

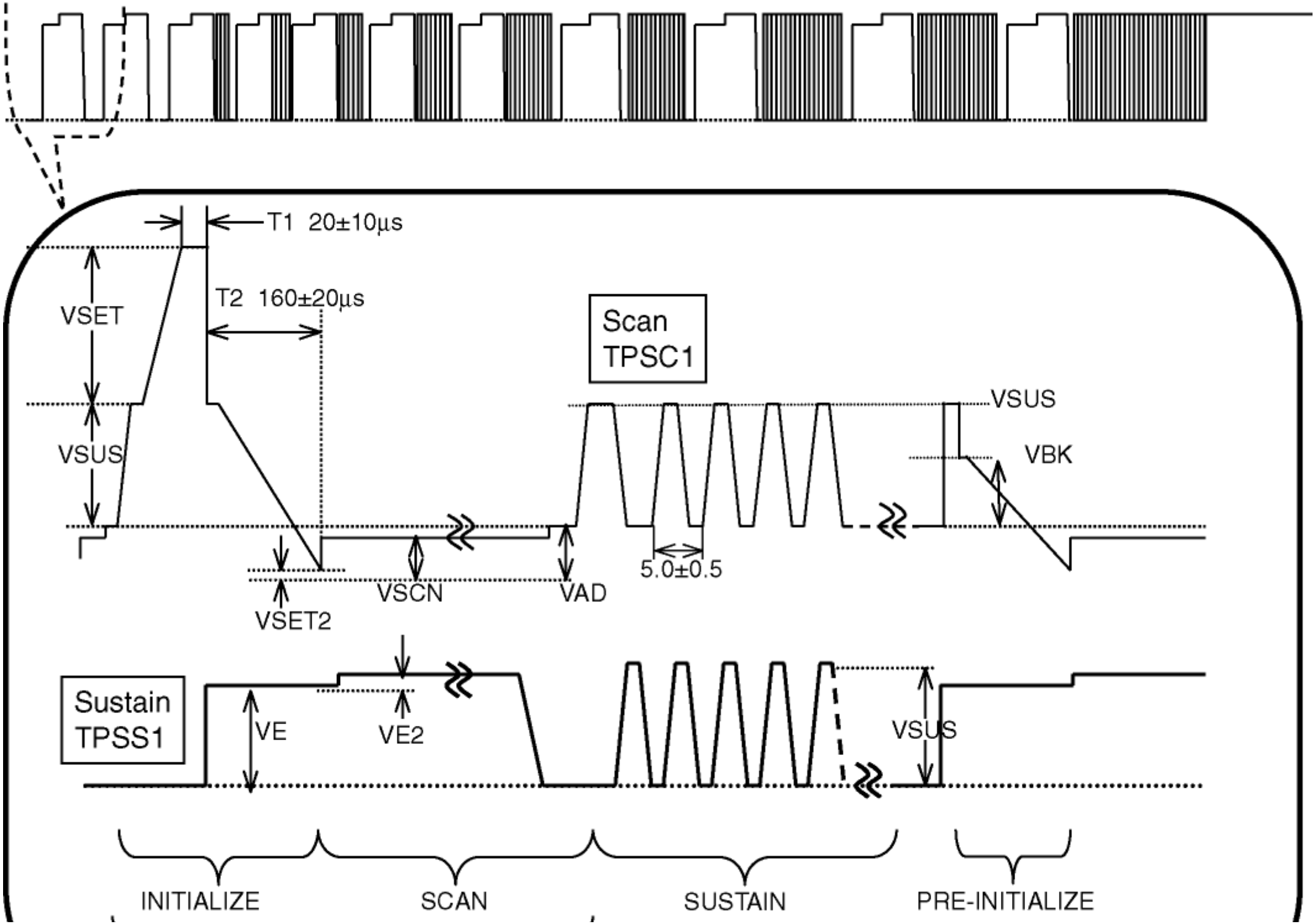
   Picture mode: Normal

   White balance: Cool

Adjust the indicated test point for the specified wave form.

| | Test point | Volume | Level |
|---|---|---|---|
| T1 | TPSC1 (SC) | R6524 (SC) | 20 ± 10µ Sec |
| T2 | TPSC1 (SC) | R6556 (SC) | 160 ± 20µ Sec |




T1 20±10µs
T2 160±20µs
VSET
VSUS
Scan
TPSC1
VSUS
VBK
5.0±0.5
VSCN
VAD
VSET2
Sustain
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE




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# 5.4 P.C.B. (Printed Circuit Board) exchange

TOP PREVIOUS NEXT

5.4.1 Caution

5.4.2 Quick adjustment after P.C.B. exchange

TOP PREVIOUS NEXT

# 5.4.1 Caution

TOP PREVIOUS NEXT

1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

TOP PREVIOUS NEXT

# 5.4.2 Quick adjustment after P.C.B. exchange

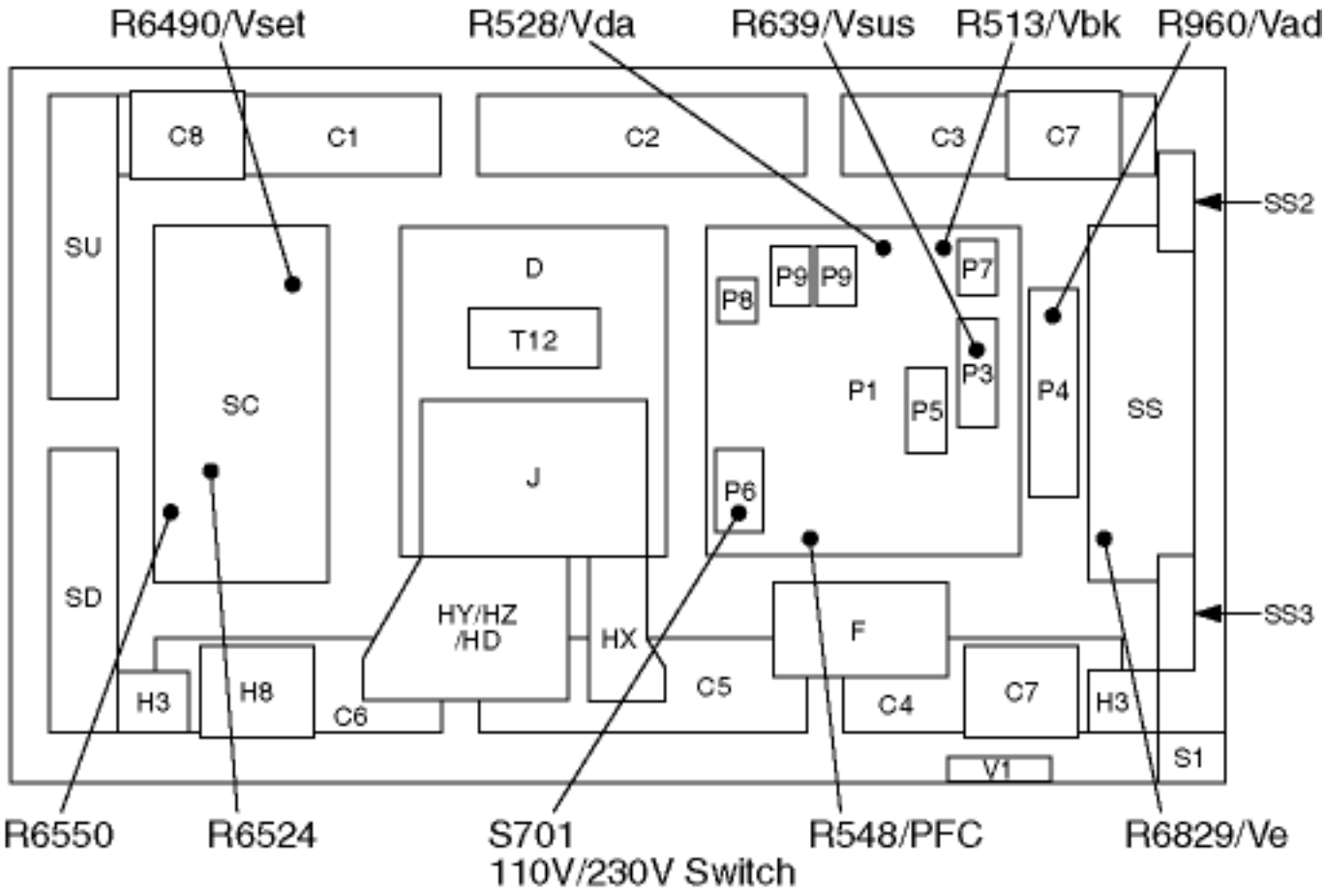
TOP PREVIOUS NEXT

| P.C.B. | Item | Volume | Test point | Level |
|---|---|---|---|---|
| P board | Vsus | R639 (P3) | TPVsus (SS) | Vsus ± 1 V |
| | Vbk | R513 (P1) | TPVBK (SC) | Vbk ± 1 V |
| | PFC | R548 (P1) | P4 connector pin 1 | 400V ± 1 V |
| SC board | Vset | R6490 (SC) | TPSET(SC) | 224V ± 1 V |
| | Vad | R960 (P4) | TPVAD (SC) | VAD ± 1 V |
| | Vscn | R967 (P4) | L6604 (SC) | Vad +120 ± 2 V |
| SS board | Ve | R6829 (SS) | TPVE (SS) | VE ± 1 V |
| D board | White balance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625I signals. | | | |

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# 5.5 Adjustment Volume Location

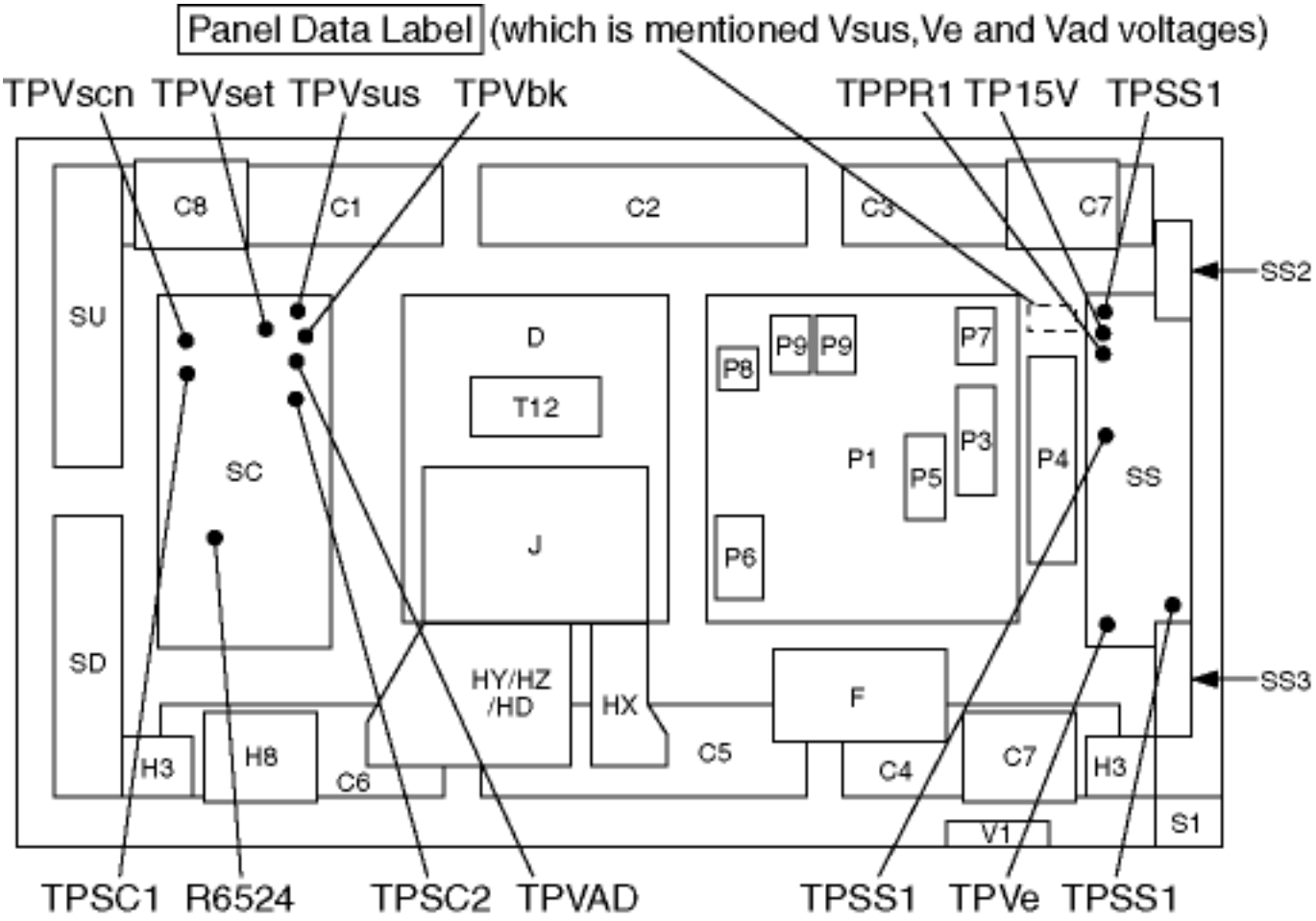
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# 5.6 Test Point Location

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# 7 Serviceman mode

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7.1 CAT (computer Aided Test) mode

7.1.1 IIC mode

7.1.2 CD mode

7.1.3 SD mode

7.2 IIC mode structure (following items value is sample data.)

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# 7.1 CAT (computer Aided Test) mode

TOP PREVIOUS NEXT

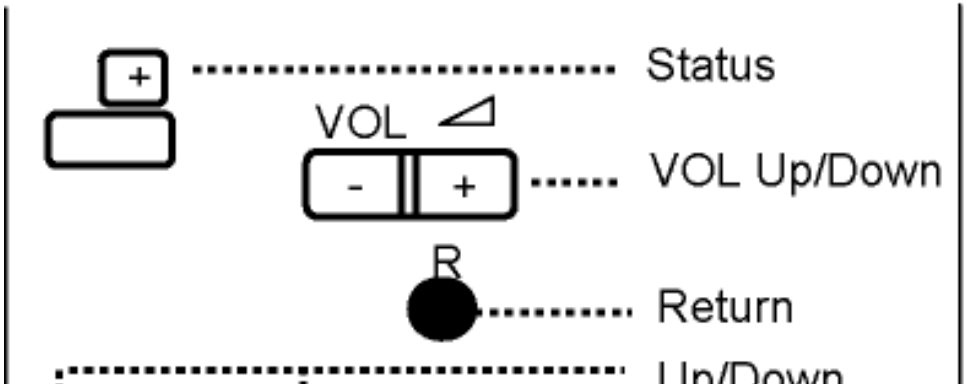
## CAT mode menu

CAT Panel sys8.1

- IIC Mode
- CD Mode
- SD Mode
- ID Mode

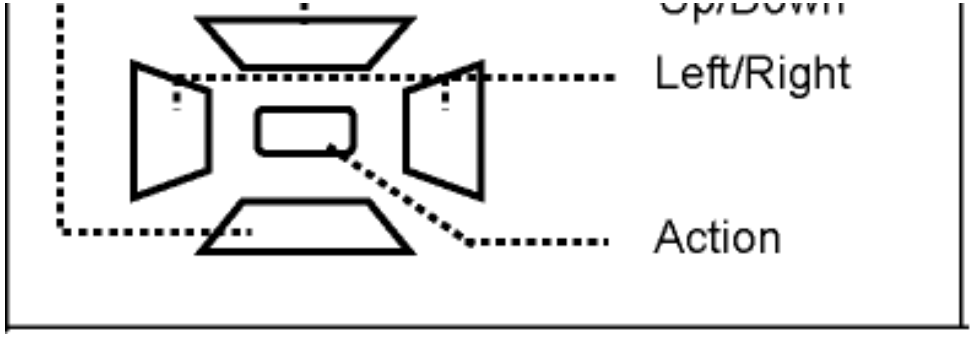
| Mode | Function | Access button |
|---|---|---|
| IIC | Service Alignment | Action |
| CD(Complete Diagnostics) | Software version information EEPROM edit | Mute more than 5 seconds |
| SD(Status Display) | MTBF parameter | Action |
| ID | Not use | ----- |

## Remote control




How to access the CAT mode.

Press and the hold the Volume down / - buton on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT menu.




To exit the CAT mode , access the ID mode and switch off the main power.

7.1.1 IIC mode

7.1.2 CD mode

7.1.3 SD mode

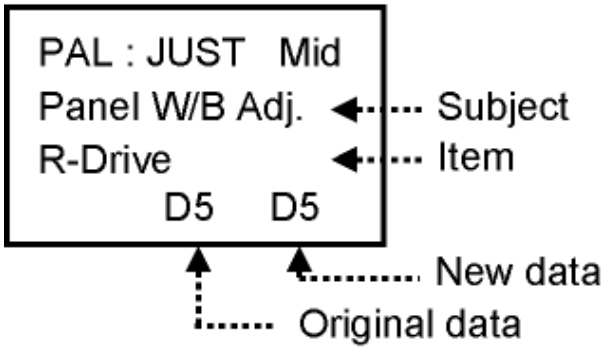
TOP PREVIOUS NEXT

# 7.1.1 IIC mode

TOP PREVIOUS NEXT

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD




How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on page 15.

To exit the IIC mode, press the R button on the remote control.

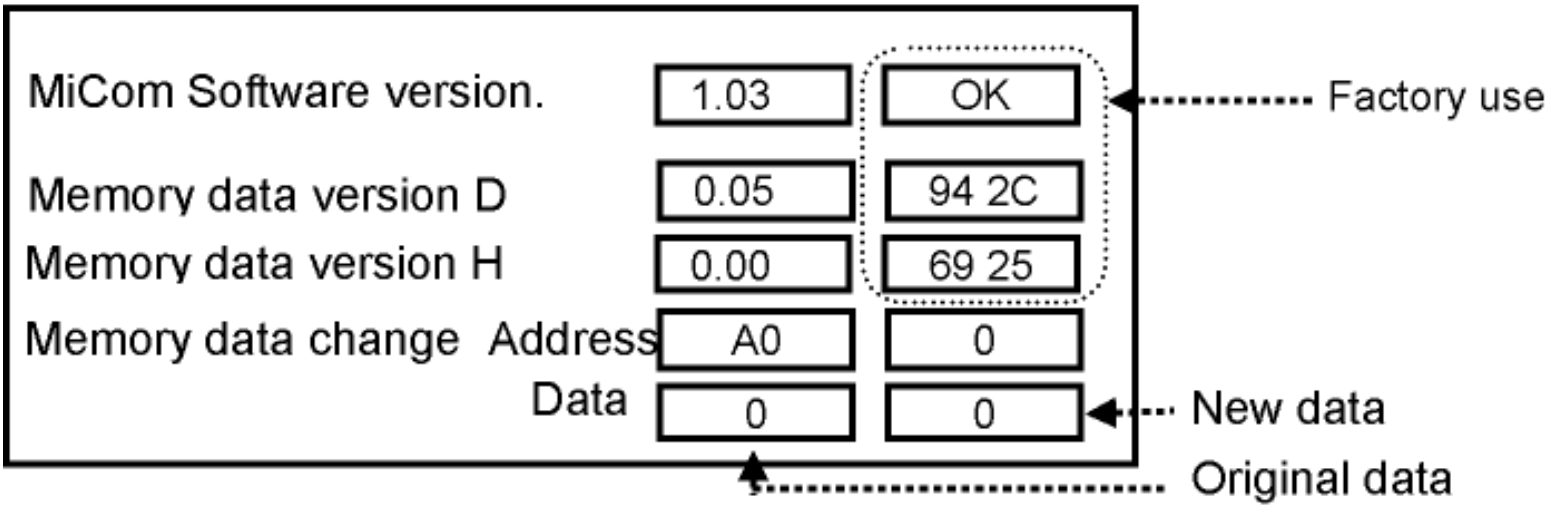
TOP PREVIOUS NEXT

# 7.1.2 CD mode

TOP PREVIOUS NEXT

Select the CD mode by Up/Down button on the remote control at the front page of CAT mode then press the Mute button on the remote control more than 5 sec.

OSD




Micom software version ( IC9705 / TVRJ562), this version can be upgrade by

1. replace of new version IC
2. Loading the new version software from loader tool, TZSC07036.

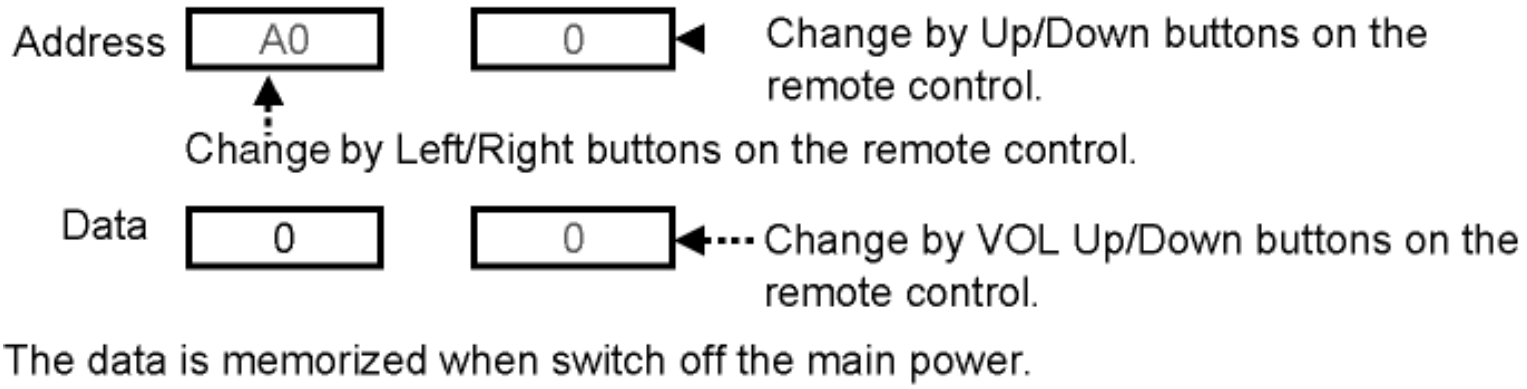
Memory data version D (IC9706 /TVRJ601) in the D board

| Version | Model | Type | Destination |
|---|---|---|---|
| 1.** | PHD30BX, EX | System | U.K. / Euro |
| 2.** | PHW30EX | Consumer | Euro |
| 3.** | PHW30BX | Consumer | U.K. |

Memory data version H (IC3699) in the H board Thisversion is difference depends on the H board type.

| Version | Type of H borad |
|---|---|
| 1.** | HY (BNC) |
| 2.** | HZ (RCA) |

Memory data change




The data is memorized when switch off the main power.

To exit the CD mode, press the R button on the remote control.

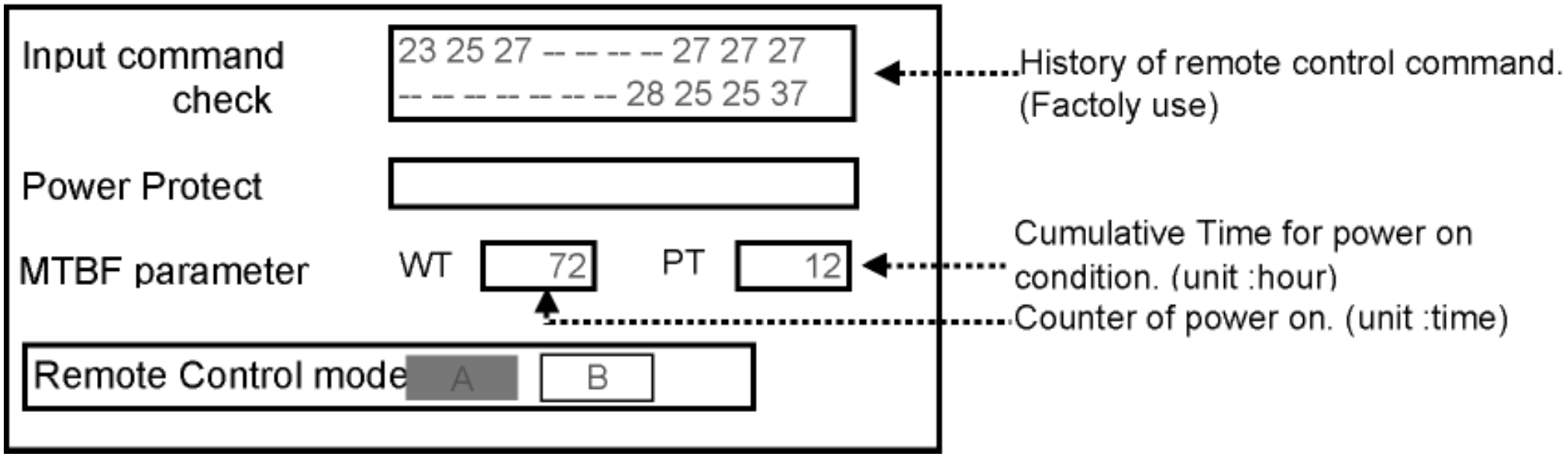
TOP PREVIOUS NEXT

# 7.1.3 SD mode

TOP PREVIOUS NEXT

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD

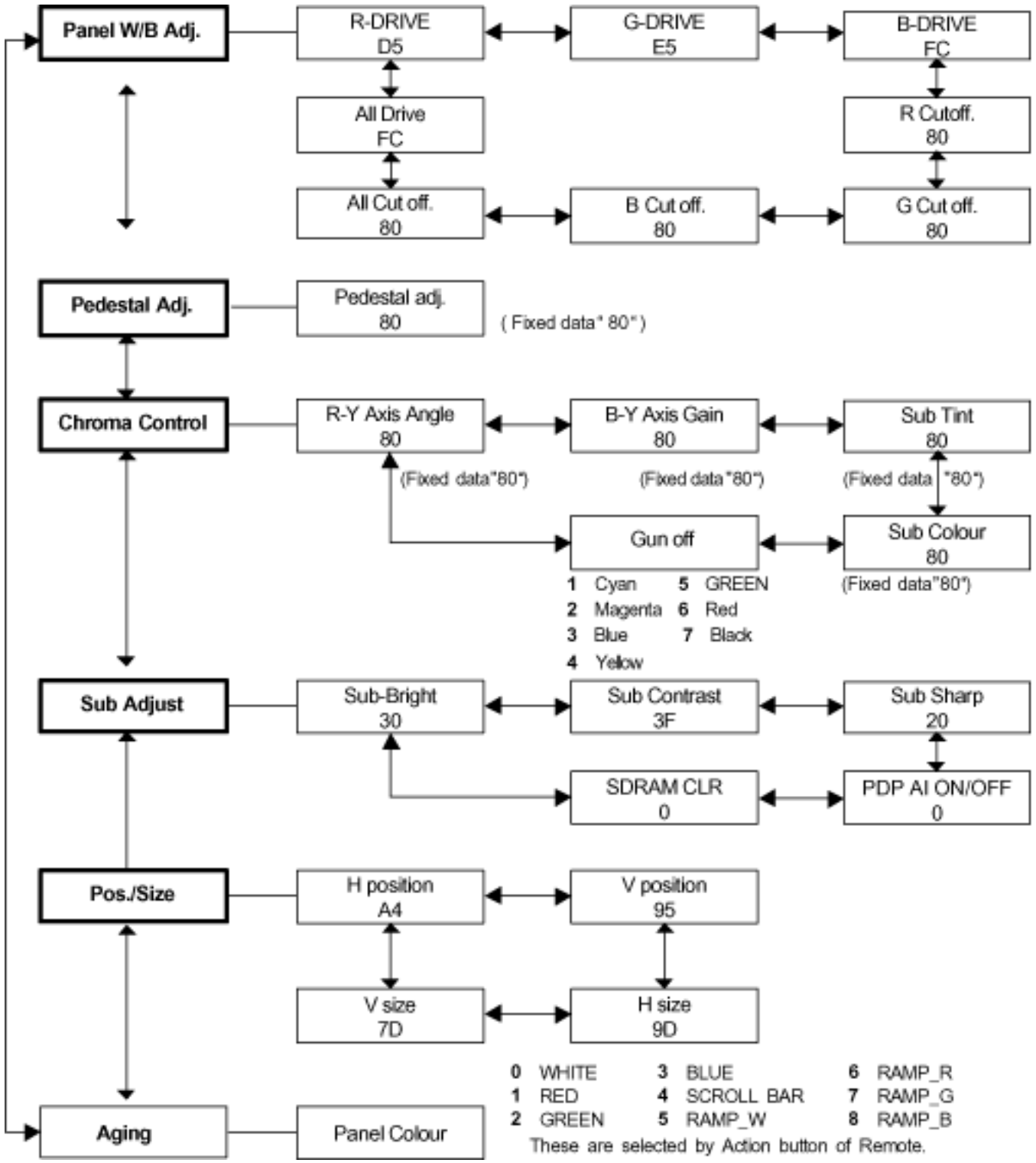



To exit the SD mode, press the R button on the remote control.

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# 7.2 IIC mode structure (following items value is sample data.)

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# 8 Alignment

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8.1 NTSC panel white balance

8.2 PAL/SECAM panel white balance

8.3 Pedestal setting

8.4 PC/RGB panel white balance

8.5 HD/ 525i/525p panel white balance

8.6 625i panel balance

8.7 Sub brighness setting

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# 8.1 NTSC panel white balance

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# 8.2 PAL/SECAM panel white balance

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# 8.3 Pedestal setting

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# 8.4 PC/RGB panel white balance

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# 8.5 HD/ 525i/525p panel white balance

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# 8.6 625i panel balance

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# 8.7 Sub brighness setting

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# 9 Trouble shooting guide

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9.1 Self Check

9.1.1 Display Indication

9.1.2 Power LED Blinking timing chart

9.2 No Power

9.3 No Picture

9.4 Local screen failure

9.5 D-Board

9.5.1 OUTLINE

9.5.2 MAIN IC OPERATION

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# 9.1 Self Check

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9.1.1 Display Indication

9.1.2 Power LED Blinking timing chart

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# 9.1.1 Display Indication

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1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.

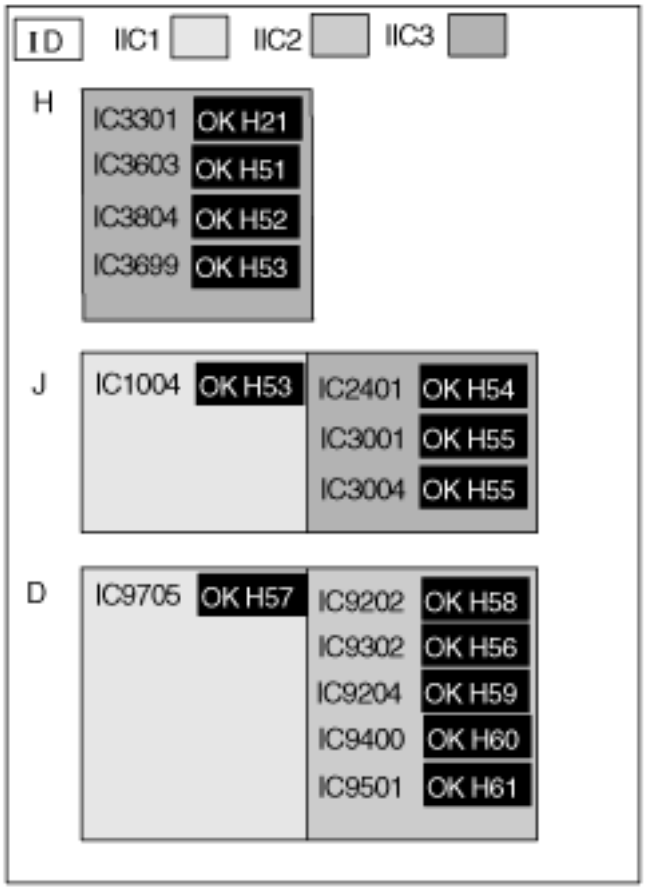
2. To get into the Self-check mode press the volume down button on the customer controls at the front of the set, at the same time pressing the OFF-TIMER button on the remote control, and the screen will show :-

If the CCU ports have been checked and found to be incorrect

Or not located then " - - " will appear in place of " OK "

Note:

In case of disconnected of HZ  IC3699 - -  is displayed.

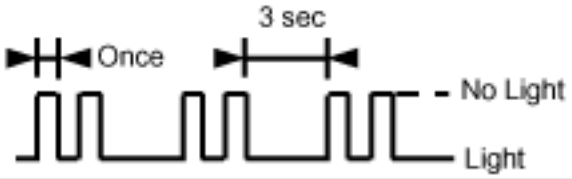



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# 9.1.2 Power LED Blinking timing chart

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When an abnormality has occurred the unit, the protection circuit operates and cuts the power supply. At this time, the defective part can be identified by the number of blinks of the Power LED at the front of the unit.

| Blinking times | Blinking timing | Contents & Check point |
|---|---|---|
| Twice |   | SC, SS, C board protection |
| Three |  | D board power protection |
| Four |  | P board protection |
| Six |  | Fan circuit / Fan stop disconects the P10 to P13. |

Above Fan function is operated during the fan is set.

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# 9.2 No Power

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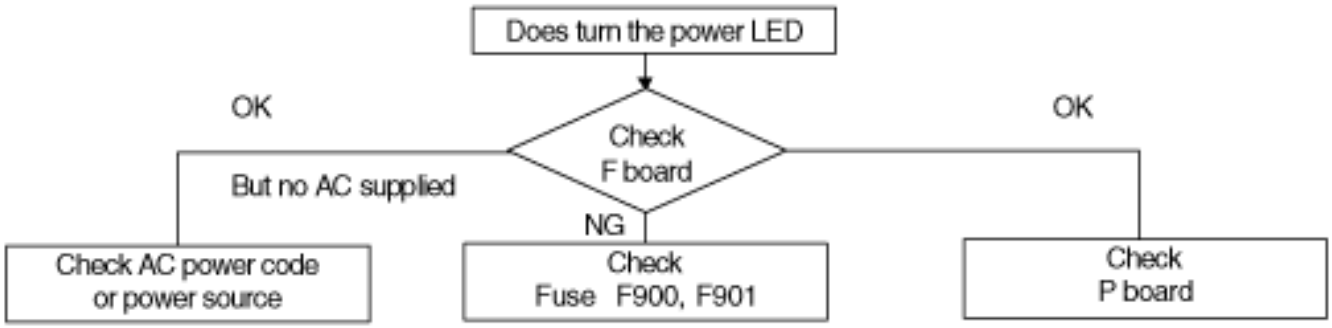
[First check point]

There are following 3 states of No Power indication by power LED.

1. No lit
2. Green is lit then turns red blinking a few seconds later.

1. No lit

See Power LED Blinking timing chart.




Note:

If connectors P8 or D5 is not inserted properly, power LED is not lit.

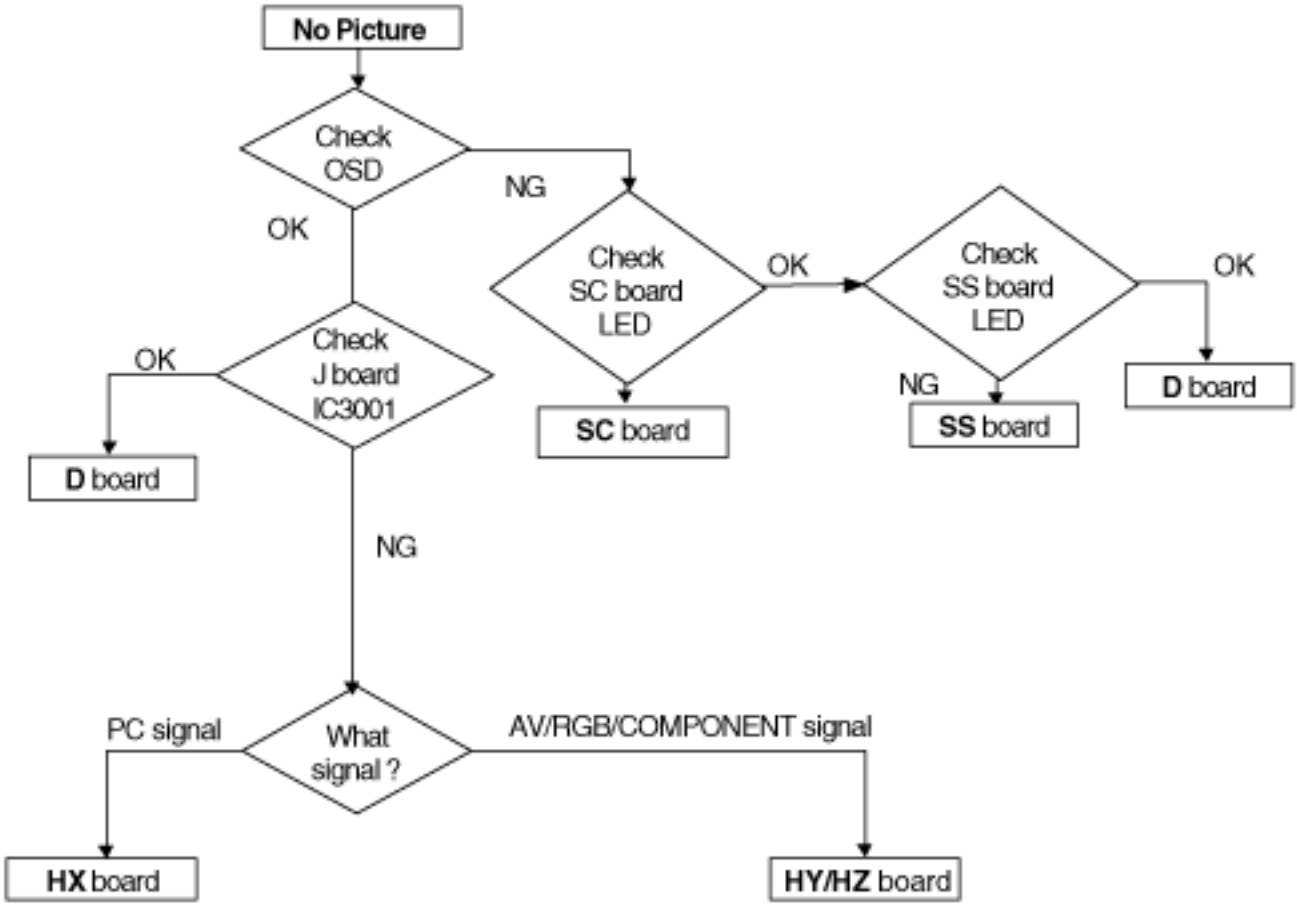
2. LED Blinking

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# 9.3 No Picture

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Green LED is lit.



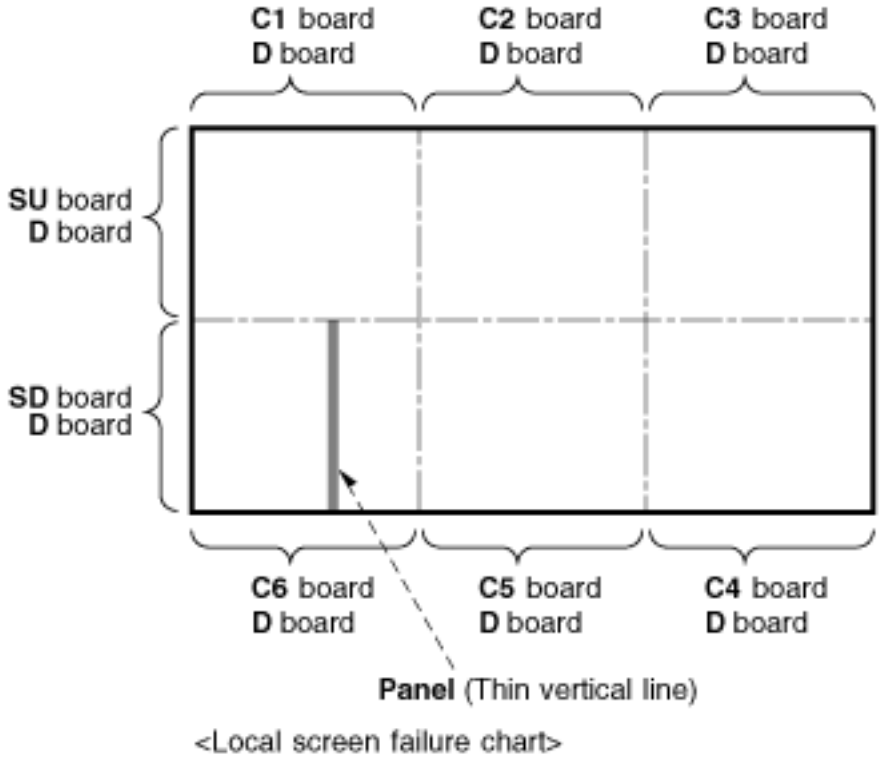

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# 9.4 Local screen failure

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Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1




<Local screen failure chart>

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# 9.5 D-Board

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9.5.1 OUTLINE

9.5.2 MAIN IC OPERATION

9.5.3 DIAGNOSTIC

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# 9.5.1 OUTLINE

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D board is consists of Analogue and Digital signal process, Discharge control and Micro control block.

D-board is operated by supply voltages of 3.3V, 5V, 13,5V and Standby 5V , RGB analogue (0.7Vp-p) and Sync. Signal.

D-board output parallel data video signal with control signal for the data driver circuit, Discharge control signal for Scan and Sustain drive circuits and Micro control signals.

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# 9.5.2 MAIN IC OPERATION

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## IC9007 ~ 9009 A/D Converter

RGB analogue signals are converted to 8 bits digital signal.

## IC9204, IC9254 FORMAT CONVERTER (LSI33)

Number of Horizontal line of input signals are converted to 768 lines.

This IC uses two clock lines, one is 15M 55MHz for input signal (ICK) and other one is 25M to 40MHz for out put signal. (OCK)

## IC9400, IC9450 PLASMA AI (LSI27)

At first input 8 bit signal data is memorized into two field memory (IC9402, IC9403) (IC9452, IC9453), Plasma AI analyze APL level and distribution of dark and bright components.

Plasma AI re-arrange 8 bit signal data to 12 bit signal data.

This IC also insert OSD (On-Screen Display signal) from Micro.

## IC9501, IC9551 SUB FIELD PROCESSOR

R,G and B 12 bit signal data is layout to fit with each electrodes of panel.

One field signal data is separated to upper 384 lines and lower 384 lines.

Both upper and lower signals are again separated odd and even number line and output.

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# 9.5.3 DIAGNOSTIC

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## (1) General

Depend on the phenomenon possible defective section from Signal processing, Discharge control or Micro control section on D-board can be diagnosed as follows.

1. Signal Processing section
    A. No picture but panel has discharge.
    B. Missing R, G or B signal
    C. Dark Picture.
    D. No OSD signal.
    E. Vertical band noise appeared.
    F. No picture or distortion on 1/4 area on the screen.
2. Micro control section
    A. Does not turn on power.
    B. No panel discharge.
3. Discharge control section
    A. No discharge but Micro control is operated.
    B. Dark picture

## (2) First Check Point

Confirm that follow signals are input to D board.

Power Supply

| Connector | Pin | Function | Connector | Pin | Function |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| D5 | 1 | 13.5 V DC | D7 | 4 | STB 5 V DC |
| | 3 | 5.0 V DC | D5 | 11 | 3.3 V DC |
| | 8 | 3.3 V DC | | 12 | 3.3 V DC |
| | 9 | - | | - | - |

Input Signal

| Connector | Function | Connector | Pin | Function |
|---|---|---|---|---|
| D8-12 | Analogue Green signal | D9 | 37 | HD (Horizontal Drive pulse) |
| D8-13 | Analogue Blue signal | | 29 | VD (Vertical Drive pulse) |
| D8-14 | Analogue Red signal | | 34 | CLP (Clamp pulse) |

## (3) Trouble shooting

1. **No Power ON** ( No power LED turn ON)

Check **IC9701**

| | | |
|---|---|---|
| **VDD** | 5 V | Pin 8, 21,37, 56, 79, 91,97, 126, 138 |
| **RESET** | 5 V | Pin 35 |
| **CLOCK** | 20 MHz | Pin 38 |

Check **IC9702 (VRAM) , IC9705 (FLASH), IC9706(EEPROM)**

Confirm each pin of hose have some pulses.

Example: **IC9702** Trouble → Re-load correct software if possible.
→ Change IC9702.

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# 10 Option Setting

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# 11 IC Block Diagram

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# 12 Conductor Views

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12.1 F, H3, S1-Board

12.2 P1-Board

12.3 P4-Board

12.4 P3, P5, P6, P7, P8 and P9-Board

12.5 HX-Board

12.6 Option TY-42TM4Y

12.7 Option TY-42TM4Z

12.8 J-Board

12.9 D-Board

12.10 C1-Board

12.11 C2-Board

12.12 C3-Board

12.13 C4-Board

12.14 C5-Board

12.15 C6-Board

12.16 C7-Board

12.17 C8-Board

12.18 SC-Board

12.19 SD-Board

12.20 SU-Board

12.21 SS, SS2 and SS3-Board

12.22 T12 and V1-Board

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# 12.1 F, H3, S1-Board

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# 12.2 P1-Board

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# 12.3 P4-Board

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# 12.4 P3, P5, P6, P7, P8 and P9-Board

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# 12.5 HX-Board

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# 12.6 Option TY-42TM4Y

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# 12.7 Option TY-42TM4Z

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# 12.8 J-Board

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# 12.9 D-Board

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# 12.10 C1-Board

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# 12.11 C2-Board

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# 12.12 C3-Board

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# 12.13 C4-Board

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# 12.14 C5-Board

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# 12.15 C6-Board

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# 12.16 C7-Board

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# 12.17 C8-Board

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# 12.18 SC-Board

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# 12.19 SD-Board

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# 12.20 SU-Board

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# 12.21 SS, SS2 and SS3-Board

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# 12.22 T12 and V1-Board

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# 13 Block and Schematic Diagrams

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13.1 Schematic Diagram Notes

13.2 Main Block Diagram

13.3 Power (F, P1, P3, P4, P5, P6, P7, P8 and P9 Board) Block Diagram

13.4 P1-Board Schematic Diagram

13.5 F, P3, P4 and P9-Board Schematic Diagram

13.6 P5, P6, P7 and P8-Board Schematic Diagram

13.7 HX-Board Block Diagram

13.8 HX-Board Schematic Diagram

13.9 Option TY-42TM4Y and TY-42TM4Z Block Diagrams

13.10 Option TY-42TM4Y (1/2) Schematic Diagrams

13.11 Option TY-42TM4Y (2/2) Schematic Diagrams

13.12 Option TY-42TM4Z (1/2) Schematic Diagram

13.13 Option TY-42TM4Z (2/2) Schematic Diagram

13.14 J-Board Block Diagram

13.15 J-Board (1/3) Schematic Diagram

13.16 J-Board (2/3) Schematic Diagram

13.17 J-Board (3/3) Schematic Diagram

13.18 D-Board Block Diagram

13.19 D-Board IC Location

13.20 D-Board Information (1/4)

13.21 D-Board Information (2/4)

13.22 D-Board Information (3/4)

13.23 D-Board Information (4/4)

13.24 D-Board (1/36) Schematic Diagram

13.25 D-Board (2/36) Schematic Diagram

13.26 D-Board (3/36) Schematic Diagram

13.27 D-Board (4/36) Schematic Diagram

13.28 D-Board (5/36) Schematic Diagram

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13.30 D-Board (7/36) Schematic Diagram

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13.32 D-Board (9/36) Schematic Diagram

13.33 D-Board (10/36) Schematic Diagram

13.34 D-Board (11/36) Schematic Diagram

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13.40 D-Board (17/36) Schematic Diagram

13.41 D-Board (18/36) Schematic Diagram

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13.44 D-Board (21/36) Schematic Diagram

13.45 D-Board (22/36) Schematic Diagram

13.46 D-Board (23/36) Schematic Diagram

13.47 D-Board (24/36) Schematic Diagram

13.48 D-Board (25/36) Schematic Diagram

13.49 D-Board (26/36) Schematic Diagram

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13.51 D-Board (28/36) Schematic Diagram

13.52 D-Board (29/36) Schematic Diagram

13.53 D-Board (30/36) Schematic Diagram

13.54 D-Board (31/36) Schematic Diagram

13.55 D-Board (32/36) Schematic Diagram

13.56 D-Board (33/36) Schematic Diagram

13.57 D-Board (34/36) Schematic Diagram

13.58 D-Board (35/36) Schematic Diagram

13.59 D-Board (36/36) Schematic Diagram

13.60 C1, C2, C3, C4, C5, C6, C7 and C8 Board Block Diagram

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13.62 C2-Board Schematic Diagram

13.63 C3-Board Schematic Diagram

13.64 C4-Board Schematic Diagram

13.65 C5-Board Schematic Diagram

13.66 C6-Board Schematic Diagram

13.67 C7-Board Schematic Diagram

13.68 C8-Board Schematic Diagram

13.69 SC-Board Block Diagram

13.70 SC-Board (1/2) Schematic Diagram

13.71 SC-Board (2/2) Schematic Diagram

13.72 SD and SU Board Block Diagram

13.73 SD-Board (1/2) Schematic Diagram

13.74 SD-Board (2/2) Schematic Diagram

13.75 SU-Board (1/2) Schematic Diagram

13.76 SU-Board (2/2) Schematic Diagram

13.77 SS, SS2 and SS3 Board Block

13.78 SS-Board (1/2) Schematic Diagram

13.79 SS-Board (2/2) SS2-Board, SS3-Board and S1-Board Schematic Diagram

13.80 T12 and V1-Board Schematic Diagram

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# 13.1 Schematic Diagram Notes

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## Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

**Notes:**

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω](K=1,000, M=1,000,000).
   - ◯ : Nonflammable
   - △ : Solid
   - ⊘ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is µF, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - M : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   - + : Electrolytic
   - NP : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. Coil
   Unit of inductance is µF, unless otherwise noted.
4. Test Point

: Test Point position

5. Earth Symbol

: Chassis Earth (Cold) : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source ..... AC 220V-240V, 50/60Hz
Receiving Signal ..... Colour Bar signal (RF)
All customer's controls ..... Maximum positions

7. Number in red circle indicates waveform nember.
(See waveform pattern table.)
8. When arrow mark ( ↗ ) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without

**Remarks:**

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Follwing diodes are interchangeable.
   MA150- MA162 (Replacement part)

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# 13.2 Main Block Diagram

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# 13.3 Power (F, P1, P3, P4, P5, P6, P7, P8 and P9 Board) Block Diagram

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# 13.4 P1-Board Schematic Diagram

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# 13.5 F, P3, P4 and P9-Board Schematic Diagram

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# 13.6 P5, P6, P7 and P8-Board Schematic Diagram

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# 13.7 HX-Board Block Diagram

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# 13.8 HX-Board Schematic Diagram

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# 13.9 Option TY-42TM4Y and TY-42TM4Z Block Diagrams

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# 13.10 Option TY-42TM4Y (1/2) Schematic Diagrams

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# 13.11 Option TY-42TM4Y (2/2) Schematic Diagrams

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# 13.12 Option TY-42TM4Z (1/2) Schematic Diagram

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# 13.13 Option TY-42TM4Z (2/2) Schematic Diagram

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# 13.14 J-Board Block Diagram

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# 13.15 J-Board (1/3) Schematic Diagram

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# 13.16 J-Board (2/3) Schematic Diagram

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# 13.17 J-Board (3/3) Schematic Diagram

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# 13.18 D-Board Block Diagram

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# 13.19 D-Board IC Location

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# 13.20 D-Board Information (1/4)

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# 13.21 D-Board Information (2/4)

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# 13.22 D-Board Information (3/4)

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# 13.24 D-Board (1/36) Schematic Diagram

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# 13.25 D-Board (2/36) Schematic Diagram

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# 13.26 D-Board (3/36) Schematic Diagram

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# 13.27 D-Board (4/36) Schematic Diagram

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# 13.28 D-Board (5/36) Schematic Diagram

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# 13.29 D-Board (6/36) Schematic Diagram

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# 13.30 D-Board (7/36) Schematic Diagram

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# 13.31 D-Board (8/36) Schematic Diagram

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# 13.32 D-Board (9/36) Schematic Diagram

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# 13.33 D-Board (10/36) Schematic Diagram

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# 13.34 D-Board (11/36) Schematic Diagram

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# 13.35 D-Board (12/36) Schematic Diagram

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# 13.44 D-Board (21/36) Schematic Diagram

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# 13.45 D-Board (22/36) Schematic Diagram

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# 13.46 D-Board (23/36) Schematic Diagram

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# 13.47 D-Board (24/36) Schematic Diagram

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# 13.48 D-Board (25/36) Schematic Diagram

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# 13.49 D-Board (26/36) Schematic Diagram

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# 13.50 D-Board (27/36) Schematic Diagram

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# 13.51 D-Board (28/36) Schematic Diagram

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# 13.52 D-Board (29/36) Schematic Diagram

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# 13.53 D-Board (30/36) Schematic Diagram

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# 13.54 D-Board (31/36) Schematic Diagram

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# 13.55 D-Board (32/36) Schematic Diagram

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# 13.56 D-Board (33/36) Schematic Diagram

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# 13.57 D-Board (34/36) Schematic Diagram

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# 13.58 D-Board (35/36) Schematic Diagram

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# 13.59 D-Board (36/36) Schematic Diagram

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# 13.60 C1, C2, C3, C4, C5, C6, C7 and C8 Board Block Diagram

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# 13.61 C1-Board Schematic Diagram

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# 13.62 C2-Board Schematic Diagram

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# 13.63 C3-Board Schematic Diagram

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# 13.64 C4-Board Schematic Diagram

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# 13.66 C6-Board Schematic Diagram

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# 13.67 C7-Board Schematic Diagram

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# 13.68 C8-Board Schematic Diagram

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# 13.69 SC-Board Block Diagram

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# 13.70 SC-Board (1/2) Schematic Diagram

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# 13.71 SC-Board (2/2) Schematic Diagram

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# 13.72 SD and SU Board Block Diagram

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# 13.73 SD-Board (1/2) Schematic Diagram

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# 13.74 SD-Board (2/2) Schematic Diagram

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# 13.75 SU-Board (1/2) Schematic Diagram

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# 13.76 SU-Board (2/2) Schematic Diagram

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# 13.77 SS, SS2 and SS3 Board Block

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# 13.78 SS-Board (1/2) Schematic Diagram

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# 13.79 SS-Board (2/2) SS2-Board, SS3-Board and S1-Board Schematic Diagram

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# 13.80 T12 and V1-Board Schematic Diagram

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# 14 Parts Location

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# 15 Mechanical Relacement Parts List

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| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| | EUR646525 | REMOTE CONTROLLER | 1 | |
| | FBL06A12LS | FAN | 1 | |
| | J0KG00000042 | NOISE FILTER | 3 | |
| | K2CN3DH00001 | AC POWER CORD | 1 | EURO ⚠ |
| | K2CT3DH00007 | AC POWER CORD | 1 | U.K. ⚠ |
| | K4DQD0000061 | CABLE TERMINAL (1P) | 3 | |
| | K5Y632B00001 | FUSE | 2 | ⚠ |
| | KRCBC160928B | CLAMPER | 1 | |
| | MC127W27P1 | PLASMA DISPLAY PANEL | 1 | ⚠ |
| | TBMA008 | PANASONIC BADGE | 1 | TH-50PHD30BX/EX |
| | TBMA059 | PANASONIC BADGE | 1 | TH-50PHW30BX/EX |
| | TBMU109 | SP TERMENAL PLATE | 2 | |
| 1 | TBXA28201A | POWER BUTTON | 1 | TH-50PHW30BX/EX |
| 1 | TBXA28202A | POWER BUTTON | 1 | TH-50PHD30BX/EX |
| 2 | TBXA28501A | HINDGE BUTTON | 1 | TH-50PHW30BX/EX |
| 2 | TBXA28502A | HINDGE BUTTON | 1 | TH-50PHD30BX/EX |
| | TESD031 | SPRING | 1 | |
| | THEA068N | SCREW | 4 | |
| | THEJ004Z | SCREW | 2 | |
| | THEL023Z | SCREW | 18 | |
| | THEL027N | SCREW | 23 | |
| | THTD004 | SCREW | 3 | |
| 3 | TKGA5057 | FRONT GLASS | 1 | |
| 4 | TKKC5105 | LED PANEL | 1 | |
| | TKKL5191 | TERMINAL COVER | 1 | |
| 5 | TKPA43801 | REMOCON RECEIVE PANEL | 1 | TH-50PHW30BX/EX |
| 5 | TKPA43802 | REMOCON RECEIVE PANEL | 1 | TH-50PHD30BX/EX |
| 6 | TKRA20501 | HANDLE | 2 | |
| | TMKX169 | INSULATOR | 1 | |
| | TMKX236 | INSULATOR | 1 | |

| | | | | |
|---|---|---|---|---|
| | TMM14467 | SPACER | 2 | |
| | TMM17489 | CLAMPER | 4 | |
| | TMM17499 | CLAMPER | 1 | |
| | TMM25401 | CLAMPER | 3 | |
| | TMM7468-1 | CLAMPER | 3 | |
| | TMM81488 | CLAMPER | 4 | |
| | TMMD006 | SPACER | 4 | |
| | TMMD007-1 | BRACKET(RIGTH) | 1 | |
| | TMMD008-1 | BRACKET(LEFT) | 1 | |
| | TMME047 | CLAMPER | 3 | |
| | TMME075 | EADG SADOLE | 3 | |
| | TMME110 | CLAMPER | 1 | |
| | TMME144 | CLAMPER | 3 | |
| | TMME152 | CLAMPER | 2 | |
| | TMME185 | CLAMPER | 2 | |
| | TMME186 | CLAMPER | 2 | |
| | TMME187 | CLAMPER | 2 | |
| | TMMX043 | SPACER (UPPER) | 6 | |
| | TMMX044 | SPACER (BOTTOM) | 6 | |
| | TMMX060 | SPACER | 1 | |
| | TMMX062 | SPACER(A) | 8 | |
| | TMMX063 | SPACER(B) | 8 | |
| | TMMX064-2 | SPACER(A) | 15 | |
| | TMMX067 | CAP | 5 | |
| | TMMX070 | SPACER(C) | 15 | |
| | TMWC006-1 | POWER BUTTOM BRACKET | 1 | |
| | TMZA5003 | BRACKET | 2 | |
| 7 | TMZX5015-1 | STAND POLL BRACKLET(LEFT) | 1 | |
| 8 | TMZX5015-2 | STAND POLL BRACKLET(RIGHT) | 1 | |
| | TPCA97133 | CARTON BOX | 1 | TH-50PHW30EX ⚠ |
| | TPCA97134 | CARTON BOX | 1 | TH-50PHW30BX ⚠ |
| | TPCA97135 | CARTON BOX | 1 | TH-50PHD30EX ⚠ |
| | TPCA97136 | CARTON BOX | 1 | TH-50PHD30BX ⚠ |
| | TPCA97201A | CARTON BOX(BOTTOM) | 1 | |
| | TPD169487 | JOINT | 4 | |
| | TPDA0510-1 | CUSHION(UPPER RIGHT) | 1 | |
| | TPDA0511-1 | CUSHION(UPPER LEFT) | 1 | |

| | | | | |
|---|---|---|---|---|
| | TPDA0512 | CUSHION(UPPER CENTER) | 1 | |
| | TPDA0513 | CUSHION(BOTTOM RIGHT) | 1 | |
| | TPDA0514 | CUSHION(BOTTOM LEFT) | 1 | |
| | TPDA0515-1 | CUSHION(BOTTOM CENTER) | 1 | |
| | TPDF0536 | PAD(TOP) | 1 | |
| | TPDF0737 | PAPER BOX | 1 | |
| | TPEH170 | PROTECT COVER | 1 | |
| | TQBC0319 | INSTRUCTION BOOK(ENGLISH) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0320 | INSTRUCTION BOOK(GERMAN) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0321 | INSTRUCTION BOOK(FRENCH) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0322 | INSTRUCTION BOOK(ITALIAN) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0323 | INSTRUCTION BOOK(SPANISH) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0324 | INSTRUCTION BOOK(DUTCH) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0325 | INSTRUCTION BOOK(DANISH) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0326 | INSTRUCTION BOOK(SWEDISH) | 1 | TH-50PHW30EX ⚠ |
| | TQBC0327 | INSTRUCTION BOOK(ENGLISH) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0328 | INSTRUCTION BOOK(GERMAN) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0329 | INSTRUCTION BOOK(FRENCH) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0330 | INSTRUCTION BOOK(ITALIAN) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0331 | INSTRUCTION BOOK(SPANISH) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0332 | INSTRUCTION BOOK(DUTCH) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0333 | INSTRUCTION BOOK(DANISH) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0334 | INSTRUCTION BOOK(SWEDISH) | 1 | TH-50PHD30EX ⚠ |
| | TQBC0335 | INSTRUCTION BOOK(ENGLISH) | 1 | TH-50PHW30BX ⚠ |
| | TQBC0336 | INSTRUCTION BOOK(ENGLISH) | 1 | TH-50PHD30BX ⚠ |
| | TSXL094 | CABLE | 1 | |
| | TSXL095 | CABLE (80P) | 1 | |
| | TSXL139 | CABLE | 8 | |
| | TSXL143 | CABLE | 4 | |
| | TSXL146 | SCN-FPC | 8 | |
| | TSXL152 | CABLE | 1 | |
| | TSXL153 | CABLE | 1 | |
| | TSXL194 | CABLE | 1 | |
| 9 | TTEA0074 | ESCUTCHEON | 1 | TH-50PHW30EX/BX |

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|---|---|---|---|---|
| 9 | TTEA0075 | ESCUTCHEON | 1 | TH-50PHD30BX/EX |
| 10 | TTUA0481 | REAR COVER | 1 | TH-50PHW30EX/BX |
| 10 | TTUA0482 | REAR COVER | 1 | TH-50PHD30BX/EX |
| | TXAJS010L32 | AC INLET | 1 | ⚠ |
| | XTS3+10J | SCREW | 5 | |
| | XYC3+FF12 | SCREW | 2 | |
| | XYC3+FF8 | SCREW | 6 | |
| | XYN3+F10 | SCREW | 113 | |
| | XYN3+F10FZ | SCREW | 22 | |
| | XYN3+F6 | SCREW | 18 | |
| | XYN3+F8 | SCREW | 112 | |
| | XYN4+E8 | SCREW | 1 | |
| | XYN4+F38FZ | SCREW | 19 | |
| | XYN5+C20 | SCREW | 8 | |
| 11 | XYN8+F20FZ | SCREW | 4 | |
| | XZBT6506 | POLY BAG | 1 | |

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# 16 Replacement Parts List

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16.1 Relpacement Parts List Notes

16.2 Electrical Replacement Parts List

16.3 Option TY-42TM4Y Replacement Parts List

16.4 Option TY-42TM4Z Replacement Parts List

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# 16.1 Relpacement Parts List Notes

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**Important Safety Notice**

*Components identified by ⚠ mark have special characteristics important for safety.*
*When replacing any of these components, use only manufacturer's specified parts.*

**RTL (Retention Time Limited)**

**Note:** The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

| Type | Allowance |
|---|---|
| C : Carbon | F : ±1% |
| F : Fuse | G : ±2% |
| M : Metal Oxide | J : ±5% |
| Metal Film | K : ±10% |
| S : Solid | M : ±20% |
| W : Wire Wound | |

| Type | Allowance |
|---|---|
| C : Ceramic | C : ±0.25pF |
| E : Electrolytic | D : ±0.5pF |
| P : Polyester | F : ±1pF |
| Polyprop | G : ±3pF |
| lene | J : ±5pF |
| T : Tantalum | K : ±10pF |
| | L : ±15pF |
| | M : ±20pF |
| | P : +100%, -0% |
| | Z : +80%, -20% |

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# 16.2 Electrical Replacement Parts List

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| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C11 | K1MN80B00001 | 1P CONNECTOR | 1 | |
| C12 | TJS6A9760 | 25P CONNECTOR | 1 | K1KA25A00013 |
| C13 | TJS5A8620 | 7P CONNECTOR | 1 | K1KB07A00030 |
| C21 | K1MN80B00001 | 1P CONNECTOR | 1 | |
| C22,23 | TJS5A8630 | 7P CONNECTOR | 2 | K1KA07A00092 |
| C31 | K1MN80B00001 | 1P CONNECTOR | 1 | |
| C33 | TJS5A8620 | 7P CONNECTOR | 1 | K1KB07A00030 |
| C34 | TJS1A8870 | 11P CONNECTOR | 1 | K1KA11A00073 |
| C35 | TJS6A9760 | 25P CONNECTOR | 1 | K1KA25A00013 |
| C41 | K1MN80B00001 | 1P CONNECTOR | 1 | |
| C42 | TJS6A9760 | 25P CONNECTOR | 1 | K1KA25A00013 |
| C43 | TJS5A8620 | 7P CONNECTOR | 1 | K1KB07A00030 |
| C44 | K1KA08A00232 | 8P CONNECTOR | 1 | |
| C51 | K1MN80B00001 | 1P CONNECTOR | 1 | |
| C52,53 | TJS5A8630 | 7P CONNECTOR | 2 | K1KA07A00092 |
| C61 | K1MN80B00001 | 1P CONNECTOR | 1 | |
| C62 | TJS6A9760 | 25P CONNECTOR | 1 | K1KA25A00013 |
| C63 | TJS5A8620 | 7P CONNECTOR | 1 | K1KB07A00030 |
| C71 | TJS6A9770 | 25P CONNECTOR | 1 | K1KB25B00005 |
| C72 | TJS1A8830 | CONNECTOR | 1 | K1KA07A00056 |
| C081 | ECJ3XB0J106M | C 10UF, M,6.3V | 1 | |
| C81 | TJS6A9770 | 25P CONNECTOR | 1 | K1KB25B00005 |
| C400,01 | ECKCNA222MEB | C 2200PF, | 2 | |
| C402 | ECQU2A105MGA | P 1UF, 250V | 1 | ⚠ |
| C403 | ECQB1H473JF | P 0.047UF, J, 50V | 1 | |
| C404 | ECKCNA222MEB | C 2200PF, | 1 | |
| C405 | ECKF1H681KB | C 680PF, Z, 50V | 1 | |
| C406 | ECWF4105JB | P 1UF, J,400V | 1 | |
| C407,08 | ECKD3A101KBP | C 100PF, K, 1KV | 2 | |
| C409,10 | ECKD3A102KBP | C 1000PF, K, 1KV | 2 | |
| C411,12 | EETHC2W331L | E 330UF, 450V | 2 | |
| C413 | ECQU2A683MN | P 0.068UF, M,250V | 1 | |
| C415 | EEUFC1E471 | E 470UF, 25V | 1 | |

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|---|---|---|---|---|
| C416 | ECA2WHG220 | E 22UF, 450V | 1 | |
| C417,18 | EETHC2W331L | E 330UF, 450V | 2 | |
| C419 | ECKD3D392KBP | C 3900PF, K, 2KV | 1 | |
| C421 | ECQE10104KF | P 0.1UF, K, 1KV | 1 | |
| C422 | ECA1HHG221 | E 220UF, 50V | 1 | |
| C423 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C424 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | |
| C425 | ECA1EHG470 | E 47UF, 25V | 1 | |
| C426 | ECKD2H821KB2 | C 820PF, K,500V | 1 | |
| C427 | ECKD3A101KBP | C 100PF, K, 1KV | 1 | |
| C428 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | |
| C429 | ECA1HHG221 | E 220UF, 50V | 1 | |
| C430 | ECQV1H473JM | P 0.047UF, J, 50V | 1 | |
| C431 | ECKF1H681KB | C 680PF, Z, 50V | 1 | |
| C432 | ECQB1H473JF | P 0.047UF, J, 50V | 1 | |
| C433,34 | ECKD3D102KBP | C 1000PF, K, 2KV | 2 | |
| C435 | ECKD3A102KBP | C 1000PF, K, 1KV | 1 | ⚠ |
| C437,38 | ECKD2H561KB2 | C 560PF, K,500V | 2 | |
| C439 | ECA1EHG470 | E 47UF, 25V | 1 | |
| C440 | EEUFC1C471 | E 470UF, 16V | 1 | |
| C441,42 | ECKD3A101KBP | C 100PF, K, 1KV | 2 | |
| C443 | ECA1EHG102 | E 1000UF, 25V | 1 | |
| C444,45 | ECKD3A101KBP | C 100PF, K, 1KV | 2 | |
| C447,48 | ECQB1H103JF | P 0.01UF, J, 50V | 2 | |
| C449 | EEUFC1E332 | E 3300UF, 25V | 1 | |
| C451 | ECQB1H272JF | P 2700PF, J, 50V | 1 | |
| C452 | EC0S1KA272CB | E 2700UF, | 1 | |
| C453,54 | ECA1EHG222 | E 2200UF, 25V | 2 | |
| C455 | ECQB1H103JF | P 0.01UF, J, 50V | 1 | |
| C458 | ECKD2H103ZU | C 0.01UF, Z,500V | 1 | |
| C462 | EEUFC1C472 | E 4700UF, 16V | 1 | |
| C463 | EEUEB1E470 | E 47UF, 25V | 1 | |
| C464-66 | ECKD3A102KBP | C 1000PF, K, 1KV | 3 | |
| C467 | EEUEB1H220 | E 22UF, 25V | 1 | |
| C468 | ECKF1H103ZF | C 0.01UF, Z, 50V | 1 | |
| C469 | EEUEB1H4R7S | E 4.7UF, 25V | 1 | EEUEB1H4R7SB |
| C472 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C475 | ECKDHT122KB | C 1200PF, 500V | 1 | |

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|---|---|---|---|---|
| C476-80 | EETHC2E102K | E 1000UF, 250V | 5 | |
| C481 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C484 | ECKDHT122KB | C 1200PF, 500V | 1 | |
| C485 | EEUFC1A682 | E 6800UF, 10V | 1 | |
| C486 | ECA2DHG220 | E 22UF, 200V | 1 | |
| C487 | ECQV1H105JM | P 1UF, J, 50V | 1 | |
| C488 | ECQB1H563JF | P 0.056UF, J, 50V | 1 | |
| C489 | ECA2DHG220 | E 22UF, 200V | 1 | |
| C491 | EC0S1KA272CB | E 2700UF, | 1 | |
| C492 | ECKDHT332KB | C 3300PF, K,500V | 1 | |
| C494 | ECQB1H563JF | P 0.056UF, J, 50V | 1 | |
| C495,96 | ECKF1H471KB | C 470PF, K, 50V | 2 | |
| C497 | ECKF1H103ZF | C 0.01UF, Z, 50V | 1 | |
| C498 | ECQB1H272JF | P 2700PF, J, 50V | 1 | |
| C499 | ECQB1H471JF | P 470PF, J, 50V | 1 | |
| C500 | ECA1EHG470 | E 47UF, 25V | 1 | |
| C502 | ECQV1H105JM | P 1UF, J, 50V | 1 | |
| C503 | ECQB1H103JF | P 0.01UF, J, 50V | 1 | |
| C504 | EEUEB1E470 | E 47UF, 25V | 1 | |
| C505 | EEUEB1E101 | E 100UF, 25V | 1 | |
| C507 | EEUEB1E101 | E 100UF, 25V | 1 | |
| C509 | EEUFC1E332 | E 3300UF, 25V | 1 | |
| C510 | ECQV1H105JM | P 1UF, J, 50V | 1 | |
| C511,12 | ECQE6105JF | P 1UF, J,630V | 2 | |
| C513 | ECA2CHG100 | E 10UF, 160V | 1 | |
| C515 | EEUFC1H330 | E 33UF, 50V | 1 | |
| C516 | ECQV1H473JM | P 0.047UF, J, 50V | 1 | |
| C517 | EEUFC1H330 | E 33UF, 50V | 1 | |
| C518 | ECQV1H473JM | P 0.047UF, J, 50V | 1 | |
| C519,20 | ECKF1H223ZF | C 0.022UF, Z, 50V | 2 | |
| C521 | ECKF1H103ZF | C 0.01UF, Z, 50V | 1 | |
| C600 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C601 | ECQV1H105JM | P 1UF, J, 50V | 1 | |
| C602 | ECQB1H222JF | P 2200PF, J, 50V | 1 | |
| C603,04 | ECQV1H105JM | P 1UF, J, 50V | 2 | |
| C606 | ECQV1H105JM | P 1UF, J, 50V | 1 | |
| C607 | ECA1HHG4R7 | E 4.7UF, 50V | 1 | |
| C608 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C609 | ECQB1H103JF | P 0.01UF, J, 50V | 1 | |

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|---|---|---|---|---|
| C610 | ECQB1H223JF | P 0.022UF, J, 50V | 1 | |
| C611 | ECQB1H333JF | P 0.033UF, J, 50V | 1 | |
| C612 | ECCF1H220JC | C 22PF, J, 50V | 1 | |
| C613 | ECQV1H105JM | P 1UF, J, 50V | 1 | |
| C614-17 | ECKF1H471KB | C 470PF, K, 50V | 4 | |
| C618 | ECQV1H224JM | P 0.22UF, J, 50V | 1 | |
| C619 | ECQB1H473JF | P 0.047UF, J, 50V | 1 | |
| C635 | ECQM4103JZ | P 0.01UF, J,400V | 1 | |
| C636 | ECA1HHG100 | E 10UF, 50V | 1 | |
| C637,38 | ECKD3A472KBP | C 4700PF, K, 1KV | 2 | |
| C639 | ECQB1H473JF | P 0.047UF, J, 50V | 1 | |
| C650-52 | ECKF1H103ZF | C 0.01UF, Z, 50V | 3 | |
| C653 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | |
| C654 | ECKF1H101KB | C 100PF, K, 50V | 1 | |
| C655 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C656 | ECA1HHG010 | E 1UF, 50V | 1 | |
| C657 | ECQB1H102JF | P 1000PF, J, 50V | 1 | |
| C658 | ECQB1H681JF | P 680PF, J, 50V | 1 | |
| C659 | ECJ2XB1H102K | C 1000PF, K, 50V | 1 | |
| C660 | ECQB1H103JF | P 0.01UF, J, 50V | 1 | |
| C661 | ECQB1H102JF | P 1000PF, J, 50V | 1 | |
| C730 | ECQB1H681JF | P 680PF, J, 50V | 1 | |
| C731 | ECKF1H221KB | C 220PF, K, 50V | 1 | |
| C732 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C733 | ECQB1H102JF | P 1000PF, J, 50V | 1 | |
| C734 | EEUFC1H221 | E 220UF, 50V | 1 | |
| C735 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | |
| C736 | ECJ2VB1C224K | C 0.22UF, K, 16V | 1 | |
| C737 | ECQB1H334JF | P 0.33UF, J, 50V | 1 | |
| C738-40 | ECQB1H102JF | P 1000PF, J, 50V | 3 | |
| C741 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C742 | ECQB1H103JF | P 0.01UF, J, 50V | 1 | |
| C743-45 | ECQV1H104JM | P 0.1UF, J, 50V | 3 | |
| C750,51 | ECKF1H103ZF | C 0.01UF, Z, 50V | 2 | |
| C752 | ECA1EHG471 | E 470UF, 25V | 1 | |
| C754 | ECA1EHG470 | E 47UF, 25V | 1 | |
| C755 | ECKF1H103ZF | C 0.01UF, Z, 50V | 1 | |
| C756 | ECA1EHG470 | E 47UF, 25V | 1 | |
| C757 | ECKF1H103ZF | C 0.01UF, Z, 50V | 1 | |

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|---|---|---|---|---|
| C759 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | |
| C775,76 | ECKF1H103ZF | C 0.01UF, Z, 50V | 2 | |
| C778-81 | ECA1HHG010 | E 1UF, 50V | 4 | |
| C782 | ECA1EHG101 | E 100UF, 25V | 1 | |
| C783 | ECA1EHG470 | E 47UF, 25V | 1 | |
| C784 | ECKF1H103ZF | C 0.01UF, Z, 50V | 1 | |
| C785 | ECA1EHG471 | E 470UF, 25V | 1 | |
| C786 | ECKF1H103ZF | C 0.01UF, Z, 50V | 1 | |
| C787 | ECA1EHG470 | E 47UF, 25V | 1 | |
| C900 | ECQU2A105BN9 | P 1UF, 250V | 1 | ⚠ |
| C901 | ECQU2A224BN9 | P 0.22UF, 250V | 1 | ⚠ |
| C903-06 | ECKCNA221MBB | C 220PF | 4 | ECKDNA221MB ⚠ |
| C907 | ECQU2A105MGA | P 1UF, 250V | 1 | ⚠ |
| C908 | ECQU2A224BN9 | P 0.22UF, 250V | 1 | ⚠ |
| C909-12 | ECKCNA221MBB | C 220PF | 4 | ECKDNA221MB ⚠ |
| C921 | ECA2WHG100 | E 10UF, 450V | 1 | |
| C922 | ECQE6224KF | P 0.22UF, K,630V | 1 | |
| C924 | ECKF1H102KB | C 1000PF, K, 50V | 1 | |
| C925 | ECQB1H102JF | P 1000PF, J, 50V | 1 | |
| C926 | ECQB1H821JF | P 820PF, J, 50V | 1 | |
| C927 | ECA1HHG220 | E 22UF, 50V | 1 | |
| C928 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | |
| C929 | ECA1HHG010 | E 1UF, 50V | 1 | |
| C930 | ECA1VHG221 | E 220UF, 35V | 1 | |
| C932 | ECKF1H101KB | C 100PF, K, 50V | 1 | |
| C934 | ECQB1H103JF | P 0.01UF, J, 50V | 1 | |
| C935,36 | ECKD3D102KBP | C 1000PF, K, 2KV | 2 | |
| C947 | ECQE4473KF | P 0.047UF, K,400V | 1 | |
| C950 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | |
| C951 | ECQB1H222JF | P 2200PF, J, 50V | 1 | P4-BOARD |
| C951 | EEUFC1E331 | E 330UF, 25V | 1 | J-BOARD |
| C952 | ECA2CHG101 | E 100UF, 160V | 1 | P4-BOARD |
| C952 | ECJ2XB1H103J | C 0.01UF, J, 50V | 1 | J-BOARD |
| C953 | ECKDHT122KB | C 1200PF, 500V | 1 | P4-BOARD |
| C953 | F1L1E4750004 | C 4.7UF, 25V | 1 | J-BOARD |
| C954 | ECA1EHG101 | E 100UF, 25V | 1 | P4-BOARD |

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| C954 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN<br>J-BOARD |
| C955 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | J-BOARD |
| C955 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | P4-BOARD |
| C956 | ECA1EHG101 | E 100UF, 25V | 1 | P4-BOARD |
| C956 | ECJ2XB1H473K | C 0.047UF, K, 50V | 1 | J-BOARD |
| C957 | ECA2CHG101 | E 100UF, 160V | 1 | P4-BOARD |
| C957 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN<br>J-BOARD |
| C958 | ECA2CHG101 | E 100UF, 160V | 1 | P4-BOARD |
| C958 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | J-BOARD |
| C959 | ECJ2XB1H103J | C 0.01UF, J, 50V | 1 | J-BOARD |
| C959 | ECQV1H104JM | P 0.1UF, J, 50V | 1 | P4-BOARD |
| C960,61 | EEUFC0J331 | E 330UF, 6.3V | 2 | |
| C981,82 | EEUFC1E561 | E 560UF, 25V | 2 | |
| C983 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C984 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | |
| C985 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C986 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | |
| C987 | ECJ2XB1H473K | C 0.047UF, K, 50V | 1 | |
| C988,89 | EEUFC0J152 | E 1500UF, 6.3V | 2 | |
| C1001,02 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C1003 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C1004,05 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C1006 | EECS5R5V155 | E 1.5UF, 5.5V | 1 | |
| C1007,08 | ECJ1XC1H330J | C 33PF, J, 50V | 2 | |
| C1009 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C1010 | ECJ2XB1H563K | C 0.056UF, K, 50V | 1 | |
| C2312 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C2313 | ECA1HHG470 | E 47UF, 50V | 1 | |
| C2314 | ECA1CHG470 | E 47UF, 16V | 1 | |
| C2316,17 | ECQV1H474JM | P 0.47UF, J, 50V | 2 | |
| C2318,19 | ECJ2XC1H561J | C 560PF, J, 50V | 2 | |
| C2320-22 | ECJ2VF1H104Z | C 0.1UF, Z, 50V | 3 | |
| C2323 | ECA1HHG221 | E 220UF, 50V | 1 | |
| C2324 | ECJ2VF1H104Z | C 0.1UF, Z, 50V | 1 | |
| C2325 | ECA1HHG221 | E 220UF, 50V | 1 | |
| C2326,27 | ECJ2XC1H221J | C 220PF, J, 50V | 2 | |
| C2328,29 | ECJ2VF1H104Z | C 0.1UF, Z, 50V | 2 | |

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|---|---|---|---|---|
| C2330 | ECJ2XB1H472K | C 4700PF, K, 50V | 1 | |
| C2331 | ECJ2XC1H101J | C 100UF, J, 50V | 1 | |
| C2332 | ECJ2XB1H472K | C 4700PF, K, 50V | 1 | |
| C2333 | ECJ2XC1H101J | C 100UF, J, 50V | 1 | |
| C2334,35 | TCUY1C225KBM | C 2.2UF, 16V | 2 | F1K1C225A026 |
| C2336,37 | ECJ2XB1H473K | C 0.047UF, K, 50V | 2 | |
| C2338,39 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 2 | |
| C2340-43 | ECJ2VF1H104Z | C 0.1UF, Z, 50V | 4 | |
| C2344-47 | EEUGZ1D102SB | E 1000UF, 20V | 4 | |
| C2348 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C2349,50 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 2 | |
| C2417 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C2419 | EEVHB1C100 | E 10UF, 16V | 1 | |
| C2422 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C2423 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | |
| C2426 | ECJ2XB1H153K | C 0.015UF, K, 50V | 1 | |
| C2427 | EEVHB1C100 | E 10UF, 16V | 1 | |
| C2429 | ECA1CHG101 | E 100UF, 16V | 1 | |
| C2431 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C2433 | ECJ2XB1H393K | C 0.039UF, K, 50V | 1 | |
| C2434 | ECJ2XB1H223K | C 0.022UF, K, 50V | 1 | |
| C2435 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | |
| C2436 | TCUY1C105KBM | C 1UF, 16V | 1 | F1K1C105A026 |
| C2437,38 | ECA1CHG101 | E 100UF, 16V | 2 | |
| C2440,41 | TCUY1C475ZFM | C 4.7UF, 16V | 2 | F1K1C4750018 |
| C2442 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C2450 | EEVHB1C100 | E 10UF, 16V | 1 | |
| C2451 | EEVHB1E4R7 | E 4.7UF, 25V | 1 | |
| C2452 | ECJ2XB1H562K | C 5600PF, K, 50V | 1 | |
| C2453 | ECJ2VF1H104Z | C 0.1UF, Z, 50V | 1 | |
| C2454 | EEVHB1E4R7 | E 4.7UF, 25V | 1 | |
| C2455 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C2457 | EEVHB1E4R7 | E 4.7UF, 25V | 1 | |
| C2458 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C2459 | TCUY1C105KBM | C 1UF, 16V | 1 | F1K1C105A026 |
| C2460 | ECJ2XB1H473K | C 0.047UF, K, 50V | 1 | |
| C2461 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C2463 | ECJ2XB1H473K | C 0.047UF, K, 50V | 1 | |
| C2466,67 | TCUY1C105KBM | C 1UF, 16V | 2 | F1K1C105A026 |

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|---|---|---|---|---|
| C2480 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C2484 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3001-03 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3004 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3005-07 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3008,09 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 2 | |
| C3010-12 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3013,14 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 2 | |
| C3015-17 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3018 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3019 | ECEA1CKA470 | E 47UF, 16V | 1 | |
| C3020 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3021 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3022 | ECJ2VF1H104Z | C 0.1UF, Z, 50V | 1 | |
| C3023 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3024 | ECJ2VF1H104Z | C 0.1UF, Z, 50V | 1 | |
| C3028 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3029 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3030,31 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 2 | |
| C3032 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3033-35 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 3 | |
| C3036 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3037-39 | EEVHB1C470 | E 47UF, 16V | 3 | |
| C3042 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3043 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C3044 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3045,46 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 2 | |
| C3047,48 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 2 | |
| C3049,50 | ECJ1VB1C104K | C 0.1UF, K, 16V | 2 | |
| C3404 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3405 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3406 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3407 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3409 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3410 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3516-18 | EEVHB1C470 | E 47UF, 16V | 3 | |
| C3520 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3521 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3523 | EEVHB1C470 | E 47UF, 16V | 1 | |

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|---|---|---|---|---|
| C3524 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3529-31 | ECJ3XB0J106M | C 10UF, M,6.3V | 3 | |
| C3533,34 | ECJ3XB0J106M | C 10UF, M,6.3V | 2 | |
| C3542 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3544 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3550 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3551 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3561,62 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3591,92 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C3593 | ECJ2VF1E104Z | C 0.1UF, Z, 25V | 1 | |
| C3594,95 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C6401-04 | TCUY1C105ZFN | C 1UF, 16V | 4 | F1J1C1050006 |
| C6406,07 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C6411 | ECJ2XB1H222K | C 2200PF, K, 50V | 1 | |
| C6413 | ECJ2XB1H222K | C 2200PF, K, 50V | 1 | |
| C6421 | ECJ2XB1H222K | C 2200PF, K, 50V | 1 | |
| C6422-27 | TCUY1C105ZFN | C 1UF, 16V | 6 | F1J1C1050006 |
| C6429 | ECJ2XB1H222K | C 2200PF, K, 50V | 1 | |
| C6461-69 | TCUY1C105ZFN | C 1UF, 16V | 9 | F1J1C1050006 |
| C6470-73 | ECJ2XB1H103K | C 0.01UF, K, 50V | 4 | |
| C6474 | ECA2VHG100 | E 10UF, 350V | 1 | |
| C6475 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C6501,02 | EEUEB2D101 | E 100UF, 200V | 2 | |
| C6503,04 | ECA2VHG100 | E 10UF, 350V | 2 | |
| C6511,12 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C6513 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6514 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C6515 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6516 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C6517,18 | ECA1EHG101 | E 100UF, 25V | 2 | |
| C6521,22 | F1K2H102A001 | C 1000PF, 500V | 2 | |
| C6523,24 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C6525 | EEUEB1E101 | E 100UF, 25V | 1 | |
| C6526 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6531 | ECA1EHG101 | E 100UF, 25V | 1 | |
| C6532,33 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C6534,35 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C6541-43 | F1K2H102A001 | C 1000PF, 500V | 3 | |
| C6544 | F1L1E4750004 | C 4.7UF, 25V | 1 | |

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| C6545 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6551 | EEUEB1E101 | E 100UF, 25V | 1 | |
| C6552 | EEUFC1E221 | E 220UF, 25V | 1 | |
| C6553,54 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C6555 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C6556 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6557 | F1L1E4750004 | C 4.7UF, 25V | 1 | |
| C6558 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C6559,60 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C6561 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C6562 | ECA1EHG101 | E 100UF, 25V | 1 | |
| C6563 | EEUFC1E102 | E 1000UF, 25V | 1 | |
| C6565 | EEUEB2D101 | E 100UF, 200V | 1 | |
| C6571-78 | TCUY1C105ZFN | C 1UF, 16V | 8 | F1J1C1050006 |
| C6601-08 | EEUEB2E151 | E 150UF, 250V | 8 | |
| C6609-11 | ECWF2474JSR | P 0.47UF, J,250V | 3 | |
| C6612 | EEUFC1E102 | E 1000UF, 25V | 1 | |
| C6613 | ECA1EHG102 | E 1000UF, 25V | 1 | |
| C6614,15 | EEUEB2E151 | E 150UF, 250V | 2 | |
| C6616 | ECA1EHG101 | E 100UF, 25V | 1 | |
| C6620 | EEUEB2E151 | E 150UF, 250V | 1 | |
| C6621-28 | ECQE2335KB | P 3.3UF, K,250V | 8 | |
| C6629 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6631-44 | ECJ3XK2J102K | C 1000PF, K,630V | 14 | |
| C6661-66 | F1L1E4750004 | C 4.7UF, 25V | 6 | |
| C6667 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6668,69 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C6670 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6671,72 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C6673-75 | TCUY1C105ZFN | C 1UF, 16V | 3 | F1J1C1050006 |
| C6701 | EEUFC1E221 | E 220UF, 25V | 1 | |
| C6703 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C6704-06 | ECWF2474JSR | P 0.47UF, J,250V | 3 | |
| C6707-14 | EEUEB2E151 | E 150UF, 250V | 8 | |
| C6716 | EEUFC1E221 | E 220UF, 25V | 1 | |
| C6717 | F1L1E4750004 | C 4.7UF, 25V | 1 | |
| C6718 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6720,21 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C6722 | F1L1E4750004 | C 4.7UF, 25V | 1 | |

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| C6724 | F1L1E4750004 | C 4.7UF, 25V | 1 | |
| C6725-32 | ECQE2335KB | P 3.3UF, K,250V | 8 | |
| C6735 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6736,37 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C6741-54 | ECJ3XK2J102K | C 1000PF, K,630V | 14 | |
| C6755 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6756-59 | F1L1E4750004 | C 4.7UF, 25V | 4 | |
| C6771,72 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C6773-75 | F1L1E4750004 | C 4.7UF, 25V | 3 | |
| C6777 | F1L1E4750004 | C 4.7UF, 25V | 1 | |
| C6781 | EEUEB2D101 | E 100UF, 200V | 1 | |
| C6792 | ECQE2104KF | P 0.1UF, K,250V | 1 | |
| C6793 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C6796-99 | ECJ2XB1H103K | C 0.01UF, K, 50V | 4 | |
| C6800 | EEUEB2D101 | E 100UF, 200V | 1 | |
| C6801 | EEUFC1E221 | E 220UF, 25V | 1 | |
| C7103-05 | TCUY1C105ZFN | C 1UF, 16V | 3 | F1J1C1050006 |
| C7108,09 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C7110-17 | TACCP1H105MT | C 1UF, 50V | 8 | F1L1H1050009 |
| C7134 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7136,37 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C7139 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7140-45 | TACCP1H105MT | C 1UF, 50V | 6 | F1L1H1050009 |
| C7146 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7161-65 | TCUY1C105ZFN | C 1UF, 16V | 5 | F1J1C1050006 |
| C7166-73 | TACCP1H105MT | C 1UF, 50V | 8 | F1L1H1050009 |
| C7201-05 | TCUY1C105ZFN | C 1UF, 16V | 5 | F1J1C1050006 |
| C7206-13 | TACCP1H105MT | C 1UF, 50V | 8 | F1L1H1050009 |
| C7231-34 | TCUY1C105ZFN | C 1UF, 16V | 4 | F1J1C1050006 |
| C7235-40 | TACCP1H105MT | C 1UF, 50V | 6 | F1L1H1050009 |
| C7261-66 | TCUY1C105ZFN | C 1UF, 16V | 6 | F1J1C1050006 |
| C7267-74 | TACCP1H105MT | C 1UF, 50V | 8 | F1L1H1050009 |
| C7301 | ECA2AHG101 | E 100UF, 100V | 1 | |
| C7302 | F1L1E4750004 | C 4.7UF, 25V | 1 | |
| C7303 | ECA2AHG101 | E 100UF, 100V | 1 | |
| C7308 | TACCP2E104MT | C 0.1UF, 250V | 1 | F1L2E1040002 |
| C7311 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7312,13 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C7314 | TACCP2E104MT | C 0.1UF, 250V | 1 | F1L2E1040002 |

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| C7315-19 | TACCP1H105MT | C 1UF, 50V | 5 | F1L1H1050009 |
| C7320 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7321,22 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C7327 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7328-31 | ECJ2XB1H103K | C 0.01UF, K, 50V | 4 | |
| C7332 | EEUFC1E221 | E 220UF, 25V | 1 | |
| C7333 | ECA2AHG101 | E 100UF, 100V | 1 | |
| C7401 | ECA2AHG101 | E 100UF, 100V | 1 | |
| C7402 | F1L1E4750004 | C 4.7UF, 25V | 1 | |
| C7403 | ECA2AHG101 | E 100UF, 100V | 1 | |
| C7408 | TACCP2E104MT | C 0.1UF, 250V | 1 | F1L2E1040002 |
| C7411 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7412,13 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C7414 | TACCP2E104MT | C 0.1UF, 250V | 1 | F1L2E1040002 |
| C7415-19 | TACCP1H105MT | C 1UF, 50V | 5 | F1L1H1050009 |
| C7420 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7421,22 | F1L1E4750004 | C 4.7UF, 25V | 2 | |
| C7427 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C7428-31 | ECJ2XB1H103K | C 0.01UF, K, 50V | 4 | |
| C7432 | EEUFC1E221 | E 220UF, 25V | 1 | |
| C7433 | ECA2AHG101 | E 100UF, 100V | 1 | |
| C8001 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C8002 | EEVHP1E220 | E 22UF, 25V | 1 | |
| C8003 | ECJ2XB1H471K | C 470PF, K, 50V | 1 | ECUM1H471KBN |
| C8005 | ECJ3XB0J106M | C 10UF, M,6.3V | 1 | |
| C8007 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C8008 | ECJ3XB0J106M | C 10UF, M,6.3V | 1 | |
| C8009 | TCUY1C475ZFM | C 4.7UF, 16V | 1 | F1K1C4750018 |
| C8010 | TCUY1C225KBM | C 2.2UF, 16V | 1 | F1K1C225A026 |
| C8011 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C8012 | ECJ2XB1H103K | C 0.01UF, K, 50V | 1 | |
| C8013 | ECJ3VB1C474K | C 0.47UF, K, 16V | 1 | |
| C8014,15 | ECJ2XB1H103K | C 0.01UF, K, 50V | 2 | |
| C8016 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C8017 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C8018 | ECJ2XC1H102J | C 1000UF, J, 50V | 1 | ECUM1H102JCN |
| C8019 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C8020 | ECJ2XC1H101J | C 100UF, J, 50V | 1 | |
| C8021 | ECJ2XC1H152J | C 1500PF, J, 50V | 1 | |

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| C8022 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C8023 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C8900 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C8902 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C8904,05 | EEVHB0G221 | E 220UF, 4V | 2 | |
| C8906-08 | ECJ1VB1C104K | C 0.1UF, K, 16V | 3 | |
| C8910 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C8912 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C8914 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C8915 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C8917-19 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 3 | |
| C9001-04 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C9005,06 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C9007,08 | EEVHB0G221 | E 220UF, 4V | 2 | |
| C9009 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9011-13 | EEVHP1E220 | E 22UF, 25V | 3 | |
| C9014-16 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 3 | |
| C9017 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9018,19 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9020 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9021-23 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 3 | |
| C9024 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9026-36 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 11 | |
| C9037-39 | ECJ1XC1H030C | C 3PF, C, 50V | 3 | |
| C9040-42 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 3 | |
| C9046,47 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 2 | |
| C9049 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9050 | ECJ1XC1H101J | C 100PF, J, 50V | 1 | |
| C9051,52 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9053 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C9054 | ECJ1XF1H102Z | C 1000PF, Z, 50V | 1 | |
| C9055 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9056,57 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C9058 | ECJ1XF1H102Z | C 1000PF, Z, 50V | 1 | |
| C9059 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9060 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9061 | ECJ1XC1H151J | C 150PF, J, 50V | 1 | |
| C9064-66 | ECJ1XC1H101J | C 100PF, J, 50V | 3 | |
| C9067 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |

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| C9068 | ECJ1XC1H101J | C 100PF, J, 50V | 1 | |
| C9069 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9070 | ECJ1XC1H101J | C 100PF, J, 50V | 1 | |
| C9071 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9072 | EEVHB1A471 | E 470UF, 10V | 1 | |
| C9073 | ECJ1XC1H101J | C 100PF, J, 50V | 1 | |
| C9074 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C9075 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9076 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9077 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9078 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9079 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9081 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9082 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9083 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9084 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C9085,86 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 2 | |
| C9087,88 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9090,91 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 2 | |
| C9092,93 | ECJ1XC1H100D | C 10PF, D, 50V | 2 | ECUX1H100DCV |
| C9094-96 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 3 | |
| C9097 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9098 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9099 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9100 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9101-06 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 6 | |
| C9107 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9108 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9109 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9110,11 | ECJ1XC1H330J | C 33PF, J, 50V | 2 | |
| C9112 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9114-18 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 5 | |
| C9119,20 | ECJ1XC1H100D | C 10PF, D, 50V | 2 | ECUX1H100DCV |
| C9121 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9122 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9123 | ECJ1XC1H100D | C 10PF, D, 50V | 1 | ECUX1H100DCV |
| C9124-28 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 5 | |
| C9133-42 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 10 | |
| C9147,48 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |

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| C9149,50 | TCUY0J685MBM | C 6.8UF, 6.3V | 2 | F1K0J685A003 |
| C9151-56 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 6 | |
| C9158-62 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 5 | |
| C9163 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9164 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9165 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9166-80 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 15 | |
| C9182 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9184 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9187,88 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9190 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9192 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9193,94 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 2 | |
| C9195,96 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C9197-00 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C9201,02 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C9203 | TCUY1C105KBM | C 1UF, 16V | 1 | F1K1C105A026 |
| C9204,05 | ECJ2VB1C104K | C 0.1UF, K, 16V | 2 | |
| C9206 | TCUY1C105KBM | C 1UF, 16V | 1 | F1K1C105A026 |
| C9207 | ECJ2VB1E563K | C 0.056UF, K, 25V | 1 | |
| C9208 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9210 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9211 | ECJ2VB1E563K | C 0.056UF, K, 25V | 1 | |
| C9212,13 | TCUY0J685MBM | C 6.8UF, 6.3V | 2 | F1K0J685A003 |
| C9215,16 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9217,18 | TCUY0J685MBM | C 6.8UF, 6.3V | 2 | F1K0J685A003 |
| C9219,20 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9221 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9222-29 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 8 | |
| C9230 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9232 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9233 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9236,37 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9239,40 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9243,44 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9246 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9248 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9251 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9252 | EEVHB0G221 | E 220UF, 4V | 1 | |

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| C9255,56 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9257 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C9258,59 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9260 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C9261 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9262 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C9263-66 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C9267 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C9268 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9269 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C9270 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9273,74 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9277-90 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 14 | |
| C9291,92 | TCUY0J685MBM | C 6.8UF, 6.3V | 2 | F1K0J685A003 |
| C9293-96 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C9297,98 | ECJ1XC1H101J | C 100PF, J, 50V | 2 | |
| C9299,00 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9301,02 | TCUY0J685MBM | C 6.8UF, 6.3V | 2 | F1K0J685A003 |
| C9303-30 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 28 | |
| C9331 | ECJ1XF1H102Z | C 1000PF, Z, 50V | 1 | |
| C9333,34 | ECJ1XC1H100D | C 10PF, D, 50V | 2 | ECUX1H100DCV |
| C9335 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9336 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C9338 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9339 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9340-51 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 12 | |
| C9352 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9353,54 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9355 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9356-61 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 6 | |
| C9362-65 | TCUY0J685MBM | C 6.8UF, 6.3V | 4 | F1K0J685A003 |
| C9366-73 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 8 | |
| C9374 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9375-80 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 6 | |
| C9381 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9382-91 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 10 | |
| C9392 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9393 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9394 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |

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| C9395-97 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 3 | |
| C9398 | ECJ1XF1H102Z | C 1000PF, Z, 50V | 1 | |
| C9400,01 | ECJ1XC1H100D | C 10PF, D, 50V | 2 | ECUX1H100DCV |
| C9402 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9403 | TCUY1C105ZFN | C 1UF, 16V | 1 | F1J1C1050006 |
| C9405 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9406 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9407-18 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 12 | |
| C9419 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9420,21 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 2 | |
| C9422 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9423-28 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 6 | |
| C9429-32 | TCUY0J685MBM | C 6.8UF, 6.3V | 4 | F1K0J685A003 |
| C9433-41 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 9 | |
| C9442,43 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 2 | |
| C9444-59 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 16 | |
| C9460 | ECJ1XC1H150J | C 15PF, J, 50V | 1 | |
| C9462 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9464 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9465 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9470 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9471 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9472 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9473 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C9474 | ECJ2VB1E563K | C 0.056UF, K, 25V | 1 | |
| C9475 | ECJ2VB1C104K | C 0.1UF, K, 16V | 1 | |
| C9476 | TCUY1C105KBM | C 1UF, 16V | 1 | F1K1C105A026 |
| C9477,78 | TCUY1C105ZFN | C 1UF, 16V | 2 | F1J1C1050006 |
| C9479 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9480 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9482 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9483 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9484 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C9485 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9489 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9500 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9501 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9502 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9503 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |

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| C9504-06 | EEVHB1A471 | E 470UF, 10V | 3 | |
| C9522 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9525 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9530-36 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 7 | |
| C9540-46 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 7 | |
| C9558,59 | ECJ1XC1H150J | C 15PF, J, 50V | 2 | |
| C9560 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9561-63 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 3 | |
| C9564-66 | ECJ2XB1H103K | C 0.01UF, K, 50V | 3 | |
| C9567-69 | TCUY1C105KBM | C 1UF, 16V | 3 | F1K1C105A026 |
| C9570-73 | TCUY1C105ZFN | C 1UF, 16V | 4 | F1J1C1050006 |
| C9574-76 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 3 | |
| C9577-79 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 3 | |
| C9600 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9601 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9602 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9603 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C9701 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9713 | ECJ1XB1C563K | | 1 | ECJ1VB1C563K |
| C9718 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9736 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9910 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9922 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C9923 | ECJ3XF1C475Z | C 4.7UF, Z, 16V | 1 | |
| C9926 | ECJ1XF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C9932 | ECJ1XC1H100D | C 10PF, D, 50V | 1 | ECUX1H100DCV |
| C9933 | ECJ1XC1H471J | C 470PF, J, 50V | 1 | |
| | | | | |
| CA1-11 | K1MN80B00001 | 1P CONNECTOR | 11 | |
| | | | | |
| CB1-11 | K1MN80B00001 | 1P CONNECTOR | 11 | |
| | | | | |
| D2 | K1KA10A00317 | 10P CONNECTOR | 1 | |
| D3 | K1KA06A00183 | 6P CONNECTOR | 1 | |
| D4 | K1KA08A00293 | 8P CONNECTOR | 1 | |
| D5 | K1KA12A00227 | 12P CONNECTOR | 1 | |
| D7 | K1KA09A00077 | 9P CONNECTOR | 1 | |
| D8 | K1KA14A00165 | 14P CONNECTOR | 1 | |
| D9 | K1KA40A00140 | 40P CONNECTOR | 1 | |

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|---|---|---|---|---|
| D20 | K1KA10A00266 | 10P CONNECTOR | 1 | |
| D21 | K1KA11A00078 | 11P CONNECTOR | 1 | |
| D31-36 | K1MN80B00001 | 1P CONNECTOR | 6 | |
| D081 | LNJ107W5PRW | LED | 1 | |
| D082 | MA8056M | ZENER DIODE | 1 | MAZ80560M |
| D400,01 | EG01 | DIODE | 2 | |
| D402 | RBV-2506 | DIODE | 1 | |
| D403 | MA4300H | ZENER DIODE | 1 | MAZ43000H |
| D404 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D405,06 | MA700A | DIODE | 2 | MA2C700A |
| D407 | FMLG26S | DIODE | 1 | |
| D408 | MA4300H | ZENER DIODE | 1 | MAZ43000H |
| D409,10 | D1NL20UV70 | DIODE | 2 | B0HAMM000072 |
| D411 | MA165 | DIODE | 1 | MA2C165 |
| D412-14 | D1NL20UV70 | DIODE | 3 | B0HAMM000072 |
| D415 | RK34 | DIODE | 1 | |
| D416-19 | D1NL20UV70 | DIODE | 4 | B0HAMM000072 |
| D420 | ERZV10V621P2 | VARISTOR | 1 | |
| D421 | S1WBA80 | DIODE | 1 | B0EBKT000003 |
| D423,24 | AK04 | DIODE | 2 | B0JAMC000003 |
| D425 | ERA22-10 | DIODE | 1 | B0EAEV000002 |
| D426 | MA165 | DIODE | 1 | MA2C165 |
| D427 | RC3B2LFU1 | DIODE | 1 | |
| D428 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D429 | MA2120A | ZENER DIODE | 1 | MAZ21200A |
| D430,31 | PC123FY2 | PHOTO COUPLER | 2 | B3PAA0000012 ⚠ |
| D432 | FMLG26S | DIODE | 1 | |
| D433 | TVSES1C | DIODE | 1 | B0HAGV000006 |
| D434 | RK34 | DIODE | 1 | |
| D435 | MA167 | DIODE | 1 | MA2C167 |
| D436 | MA4300H | ZENER DIODE | 1 | MAZ43000H |
| D437,38 | FMLG26S | DIODE | 2 | |
| D439,40 | EU02 | DIODE | 2 | |
| D441,42 | ERC91-02 | DIODE | 2 | B0HAPM000003 |
| D443,44 | FML-G12S | DIODE | 2 | |
| D445 | MA4300H | ZENER DIODE | 1 | MAZ43000H |
| D446 | MA4051M | ZENER DIODE | 1 | MAZ40510M |
| D447 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |

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|---|---|---|---|---|
| D450 | D1NL40V70 | DIODE | 1 | B0HALP000002 |
| D451-54 | FMLG16S | DIODE | 4 | B0HARR000008 |
| D455 | MA165 | DIODE | 1 | MA2C165 |
| D459 | MA700A | DIODE | 1 | MA2C700A |
| D460 | MA165 | DIODE | 1 | MA2C165 |
| D461 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D462 | RK34 | DIODE | 1 | |
| D464-66 | D1NL40V70 | DIODE | 3 | B0HALP000002 |
| D467-70 | MA165 | DIODE | 4 | MA2C165 |
| D471 | MA167 | DIODE | 1 | MA2C167 |
| D472 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D473 | RK34 | DIODE | 1 | |
| D474 | MA167 | DIODE | 1 | MA2C167 |
| D475 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D476,77 | AK04 | DIODE | 2 | B0JAMC000003 |
| D478 | MA167 | DIODE | 1 | MA2C167 |
| D479 | MA4056M | ZENER DIODE | 1 | MAZ40560M |
| D482 | D1NL40V70 | DIODE | 1 | B0HALP000002 |
| D483 | MA165 | DIODE | 1 | MA2C165 |
| D487 | EG01A | DIODE | 1 | B0HAGR000006 |
| D489 | D1NL40V70 | DIODE | 1 | B0HALP000002 |
| D500 | ERA15-02 | DIODE | 1 | B0EAKM000016 |
| D504 | MA4047H | ZENER DIODE | 1 | MAZ40470H |
| D505 | MA4082L | ZENER DIODE | 1 | MAZ40820L |
| D506 | MA4043H | ZENER DIODE | 1 | MAZ40430H |
| D507 | TMPG10G3 | DIODE | 1 | B0BA01000046 |
| D508 | MA4043H | ZENER DIODE | 1 | MAZ40430H |
| D509 | MA4068H | ZENER DIODE | 1 | MAZ40680H |
| D510,11 | TMPG10G3 | DIODE | 2 | B0BA01000046 |
| D512 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D513 | MA700A | DIODE | 1 | MA2C700A |
| D514 | MA4150M | ZENER DIODE | 1 | MAZ41500M |
| D515 | MA165 | DIODE | 1 | MA2C165 |
| D601 | CR02AM-4 | THYRISTOR | 1 | B2AAAL000003 |
| D602 | MA3082M | ZENER DIODE | 1 | MAZ30820M |
| D603 | MA152K | DIODE | 1 | MA3X152K |
| D604 | PC123FY2 | PHOTO COUPLER | 1 | B3PAA0000012 ⚠ |
| D606 | PC123FY2 | PHOTO COUPLER | 1 | B3PAA0000012 ⚠ |

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|---|---|---|---|---|
| D607 | MA152K | DIODE | 1 | MA3X152K |
| D608 | M1FS4 | DIODE | 1 | |
| D635 | MA3062M | ZENER DIODE | 1 | MAZ30620M |
| D650 | MA3140M | ZENER DIODE | 1 | MAZ31400M |
| D651 | MA152K | DIODE | 1 | MA3X152K |
| D654 | M1FS4 | DIODE | 1 | |
| D655 | MA3068M | ZENER DIODE | 1 | MAZ30680M |
| D656 | M1FS4 | DIODE | 1 | |
| D657,58 | D1FL40F4063 | DIODE | 2 | B0ECHP000001 |
| D659 | MA3068M | ZENER DIODE | 1 | MAZ30680M |
| D730 | MA152K | DIODE | 1 | MA3X152K |
| D731-33 | D1FL40F4063 | DIODE | 3 | B0ECHP000001 |
| D734 | MA152K | DIODE | 1 | MA3X152K |
| D735 | MA3300L | ZENER DIODE | 1 | MAZ33000L |
| D736 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D737 | M1FS4 | DIODE | 1 | |
| D738 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D739 | MA3300L | ZENER DIODE | 1 | MAZ33000L |
| D740 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D741 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| D742 | MA152K | DIODE | 1 | MA3X152K |
| D750 | MA3047H | ZENER DIODE | 1 | |
| D751,52 | MA152K | DIODE | 2 | MA3X152K |
| D753 | MA3033L | ZENER DIODE | 1 | MAZ30330L |
| D755 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D756 | MA152K | DIODE | 1 | MA3X152K |
| D775,76 | MA152K | DIODE | 2 | MA3X152K |
| D777 | MA3039H | ZENER DIODE | 1 | MAZ30390H |
| D900 | ERZV10V621P2 | VARISTOR | 1 | |
| D921 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D922,23 | TVSA81004 | DIODE | 2 | B0JAME000009 |
| D924 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D925,26 | MA4082M | ZENER DIODE | 2 | MAZ40820M |
| D928 | TMPG10G3 | DIODE | 1 | B0BA01000046 |
| D935 | EG01C | DIODE | 1 | B0HAGV000001 |
| D936 | TVSES1C | DIODE | 1 | B0HAGV000006 |
| D941 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D942 | MA700A | DIODE | 1 | MA2C700A |
| D943-46 | MA167 | DIODE | 4 | MA2C167 |

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|---|---|---|---|---|
| D947 | D1NL20UV70 | DIODE | 1 | B0HAMM000072 |
| D951,52 | MA111 | DIODE | 2 | MA2J111 |
| D953 | B0JCPD000010 | DIODE | 1 | |
| D957 | EG01C | DIODE | 1 | B0HAGV000001 |
| D981 | M1FS4 | DIODE | 1 | |
| D982 | MA152K | DIODE | 1 | MA3X152K |
| D1001 | MA111 | DIODE | 1 | MA2J111 |
| D2301-04 | M1FS4 | DIODE | 4 | |
| D2305,06 | RU4AM | DIODE | 2 | |
| D2307 | MA111 | DIODE | 1 | MA2J111 |
| D2308 | MA152WK | DIODE | 1 | MA3X152E |
| D3001 | MA111 | DIODE | 1 | MA2J111 |
| D3002 | M1FS4 | DIODE | 1 | |
| D3501-04 | MA3056M | ZENER DIODE | 4 | MAZ30560M |
| D3505,06 | MA153 | DIODE | 2 | MA3X153 |
| D3507 | MA111 | DIODE | 1 | MA2J111 |
| D6401,02 | MA8056H | ZENER DIODE | 2 | MAZ80560H |
| D6411,12 | MA8056H | ZENER DIODE | 2 | MAZ80560H |
| D6461,62 | MA8330M | ZENER DIODE | 2 | MAZ83300M |
| D6463 | LNJ206R5ARA | LED | 1 | |
| D6464,65 | D1FL20U | DIODE | 2 | |
| D6466-73 | M1FS4 | DIODE | 8 | |
| D6474 | MA8330M | ZENER DIODE | 1 | MAZ83300M |
| D6500-08 | K7GBZEE00002 | DIODE | 9 | |
| D6509-13 | MA111 | DIODE | 5 | MA2J111 |
| D6514 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6516 | MA111 | DIODE | 1 | MA2J111 |
| D6521 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6522,23 | MA111 | DIODE | 2 | MA2J111 |
| D6524,25 | MA8051L | ZENER DIODE | 2 | MAZ80510L |
| D6526,27 | MA111 | DIODE | 2 | MA2J111 |
| D6528 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6531,32 | MA111 | DIODE | 2 | MA2J111 |
| D6533 | EC8FS6 | DIODE | 1 | |
| D6534,35 | MA8330M | ZENER DIODE | 2 | MAZ83300M |
| D6536 | MA8051L | ZENER DIODE | 1 | MAZ80510L |
| D6537-39 | MA111 | DIODE | 3 | MA2J111 |
| D6541-43 | MA8330M | ZENER DIODE | 3 | MAZ83300M |
| D6544,45 | MA111 | DIODE | 2 | MA2J111 |

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|---|---|---|---|---|
| D6546,47 | MA8051L | ZENER DIODE | 2 | MAZ80510L |
| D6548 | MA111 | DIODE | 1 | MA2J111 |
| D6551-53 | D1FL40F4063 | DIODE | 3 | B0ECHP000001 |
| D6554 | EC8FS6 | DIODE | 1 | |
| D6555 | M1FS4 | DIODE | 1 | |
| D6556,57 | D1FL40F4063 | DIODE | 2 | B0ECHP000001 |
| D6558 | M1FS4 | DIODE | 1 | |
| D6559 | EC8FS6 | DIODE | 1 | |
| D6560 | MA111 | DIODE | 1 | MA2J111 |
| D6561 | M1FS4 | DIODE | 1 | |
| D6564-66 | MA8330M | ZENER DIODE | 3 | MAZ83300M |
| D6567,68 | MA152WK | DIODE | 2 | MA3X152E |
| D6569 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6611-16 | B0HBSN000002 | DIODE | 6 | |
| D6617-19 | SF20LC30F10 | DIODE | 3 | |
| D6620 | MA111 | DIODE | 1 | MA2J111 |
| D6621-26 | B0HBSN000002 | DIODE | 6 | |
| D6627-29 | SF20LC30F10 | DIODE | 3 | |
| D6630 | D1FL20U | DIODE | 1 | |
| D6631 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6632 | D1FL20U | DIODE | 1 | |
| D6633 | SF20LC30F10 | DIODE | 1 | |
| D6634-36 | D1FL40F4063 | DIODE | 3 | B0ECHP000001 |
| D6638-40 | SF20LC30F10 | DIODE | 3 | |
| D6641-48 | M1FS4 | DIODE | 8 | |
| D6651-60 | M1FS4 | DIODE | 10 | |
| D6711 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6712 | D1FL20U | DIODE | 1 | |
| D6713 | SF20LC30F10 | DIODE | 1 | |
| D6714-25 | B0HBSN000002 | DIODE | 12 | |
| D6726-31 | SF20LC30F10 | DIODE | 6 | |
| D6737 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6738,39 | MA8330M | ZENER DIODE | 2 | MAZ83300M |
| D6740 | LNJ206R5ARA | LED | 1 | |
| D6741-48 | M1FS4 | DIODE | 8 | |
| D6751,52 | D1FL40F4063 | DIODE | 2 | B0ECHP000001 |
| D6753,54 | M1FS4 | DIODE | 2 | |
| D6770 | D1FL20U | DIODE | 1 | |
| D6771 | TMPG10G3 | DIODE | 1 | B0BA01000046 |

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| D6787,88 | D1FL40F4063 | DIODE | 2 | B0ECHP000001 |
| D6793,94 | MA152WK | DIODE | 2 | MA3X152E |
| D6795 | D1FL40F4063 | DIODE | 1 | B0ECHP000001 |
| D6796-98 | SF20LC30F10 | DIODE | 3 | |
| D7101-04 | D1FL20U | DIODE | 4 | |
| D7131-33 | D1FL20U | DIODE | 3 | |
| D7161-64 | D1FL20U | DIODE | 4 | |
| D7201-04 | D1FL20U | DIODE | 4 | |
| D7231-33 | D1FL20U | DIODE | 3 | |
| D7261-64 | D1FL20U | DIODE | 4 | |
| D7302 | D1FL20U | DIODE | 1 | |
| D7311 | D1FL20U | DIODE | 1 | |
| D7312,13 | M1FS4 | DIODE | 2 | |
| D7314-17 | DE5LC20UF61 | DIODE | 4 | |
| D7318 | MA111 | DIODE | 1 | MA2J111 |
| D7319 | MA8051L | ZENER DIODE | 1 | MAZ80510L |
| D7320,21 | DE5LC20UF61 | DIODE | 2 | |
| D7322,23 | MA152WK | DIODE | 2 | MA3X152E |
| D7324 | M1FS4 | DIODE | 1 | |
| D7326,27 | M1FS4 | DIODE | 2 | |
| D7402 | D1FL20U | DIODE | 1 | |
| D7411 | D1FL20U | DIODE | 1 | |
| D7412,13 | M1FS4 | DIODE | 2 | |
| D7414-17 | B0HDSN000002 | DIODE | 4 | |
| D7418 | MA111 | DIODE | 1 | MA2J111 |
| D7419 | MA8051L | ZENER DIODE | 1 | MAZ80510L |
| D7420,21 | B0HDSN000002 | DIODE | 2 | |
| D7422,23 | MA152WK | DIODE | 2 | MA3X152E |
| D7424 | M1FS4 | DIODE | 1 | |
| D7426,27 | M1FS4 | DIODE | 2 | |
| D8001,02 | MA111 | DIODE | 2 | MA2J111 |
| D9001,02 | MA3036H | ZENER DIODE | 2 | MAZ30360H |
| D9003-09 | MA3062M | ZENER DIODE | 7 | MAZ30620M |
| D9010,11 | MA152K | DIODE | 2 | MA3X152K |
| D9012 | MA3062M | ZENER DIODE | 1 | MAZ30620M |
| D9014 | MA3062M | ZENER DIODE | 1 | MAZ30620M |
| D9706 | MA152K | DIODE | 1 | MA3X152K |
| | | | | |
| F1 | TJS3A9630 | CONNECTOR | 1 | K1KA03A00183 |

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|---|---|---|---|---|
| F9 | TJS3A9630 | CONNECTOR | 1 | K1KA03A00183 |
| | | | | |
| H37 | TJS3A9640 | 3P CONNECTOR | 1 | K1KA03A00171 |
| | | | | |
| HX1 | K1KB40B00015 | 40P CONNECTOR | 1 | |
| | | | | |
| IC400 | MIP0210SY1TV | IC (LOGIC) | 1 | |
| IC401 | AN7715F | LINEAR IC | 1 | |
| IC403 | UPC2260V | LINEAR IC | 1 | C0DAFHE00001 |
| IC406 | UPC1093J | LINEAR IC | 1 | C0DAEMC00002 |
| IC407 | SI-8050S | HYBRID IC | 1 | C0DAAHH00013 |
| IC410 | UPC1093J | LINEAR IC | 1 | C0DAEMC00002 |
| IC411 | PQ30RV21A | LINEAR IC | 1 | C0DAEZH00008 |
| IC412 | C0DAAKH00004 | IC | 1 | |
| IC421 | PC123FY2 | PHOTO COUPLER | 1 | B3PAA0000012 |
| IC600 | UC3715N | IC | 1 | C0DACHA00002 |
| IC601 | MC33025P | IC | 1 | C0DAAKE00001 |
| IC602 | UC3715N | IC | 1 | C0DACHA00002 |
| IC635 | UPC1093J | LINEAR IC | 1 | C0DAEMC00002 |
| IC650 | AN8026 | LINEAR IC | 1 | |
| IC735 | MC33262P | IC | 1 | C0DAZZZ00013 |
| IC736 | AN6912 | LINEAR IC | 1 | |
| IC737 | AN78L05 | LINEAR IC | 1 | |
| IC750 | AN6912 | LINEAR IC | 1 | |
| IC751 | TLP621GR | PHOT0 COUPLER | 1 | B3PAA0000150 |
| IC775 | AN6912 | LINEAR IC | 1 | |
| IC921 | AN8026 | LINEAR IC | 1 | |
| IC931 | UPC1093J | LINEAR IC | 1 | C0DAEMC00002 |
| IC932 | AN78M15 | LINEAR IC | 1 | |
| IC934 | UPC1093J | LINEAR IC | 1 | C0DAEMC00002 |
| IC951 | C0DBAZH00006 | IC | 1 | |
| IC981 | C0DBAHH00013 | IC | 1 | |
| IC1001 | TC7SH32F | IC | 1 | C0JBAE000191 |
| IC1002 | C2BBFE000106 | IC | 1 | |
| IC1003 | M51957BFP | LINEAR IC | 1 | C0EBB0000024 |
| IC1004 | C1DB00000274 | IC | 1 | |
| IC2301,02 | TDA7480 | LINEAR IC | 2 | C1AA00000561 |
| IC2304 | PQ09SZ1T | IC | 1 | C0CBAHG00005 |
| IC2401 | BH3865S | LINEAR IC | 1 | C1BA00000302 |

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|---|---|---|---|---|
| IC3001 | C1AB00001139 | IC | 1 | |
| IC3002,03 | MC14052BF | MOS IC (CMOS GATE ARRLY)* | 2 | C0JBAR000021 |
| IC3004 | CXA1315M | LINEAR IC | 1 | C1AB00000440 |
| IC3006 | PQ09SZ1T | IC | 1 | C0CBAHG00005 |
| IC3007,08 | PQ12SZ1T | IC | 2 | C0CBAKG00003 |
| IC3009 | AHC2G66HDCTR | INTEGRATED CIRCUIT | 1 | C0JBAS000109 |
| IC3502 | TVRJ692 | ROM IC | 1 | C3EBCC000020 |
| IC3515 | MAX202CSE | IC | 1 | |
| IC6401-06 | C0HBC0000005 | IC | 6 | |
| IC6411-16 | C0HBC0000005 | IC | 6 | |
| IC6501-04 | TC74HC02AF | IC | 4 | C0JBAD000054 |
| IC6505,06 | TC74HC14AF | IC | 2 | C0JBAB000155 |
| IC6507-09 | AN78L05M | LINEAR IC | 3 | |
| IC6510 | AN1431M | LINEAR IC | 1 | |
| IC6511 | C0ZBZ0000138 | IC | 1 | C0ZBZ0000562 |
| IC6512 | AN1431M | IC | 1 | |
| IC6521 | C0ZBZ0000138 | IC | 1 | C0ZBZ0000562 |
| IC6531 | C0ZBZ0000138 | IC | 1 | C0ZBZ0000562 |
| IC6541 | C0ZBZ0000138 | IC | 1 | C0ZBZ0000562 |
| IC6601-04 | C0ZBZ0000138 | IC | 4 | C0ZBZ0000562 |
| IC6605,06 | TC74HC244AF | IC | 2 | |
| IC6607 | NJM2903M | INTEGRATED CIRCUIT | 1 | C0BBBA000019 |
| IC6608 | AN1431M | LINEAR IC | 1 | |
| IC6701 | TC74HC244AF | IC | 1 | |
| IC6702 | TC74HC02AF | IC | 1 | C0JBAD000054 |
| IC6703-07 | C0ZBZ0000138 | IC | 5 | C0ZBZ0000562 |
| IC6709 | AN1431M | LINEAR IC | 1 | |
| IC6712 | NJM2903M | INTEGRATED CIRCUIT | 1 | C0BBBA000019 |
| IC7101 | TC74HC244AF | IC | 1 | |
| IC7131 | TC74HC244AF | IC | 1 | |
| IC7132 | DS1621S | IC | 1 | C9ZB00000192 |
| IC7161 | TC74HC244AF | IC | 1 | |
| IC7201 | TC74HC244AF | IC | 1 | |
| IC7231 | TC74HC244AF | IC | 1 | |
| IC7261 | TC74HC244AF | IC | 1 | |
| IC7301 | TC74HC244AF | IC | 1 | |
| IC7302,03 | C0ZBZ0000138 | IC | 2 | C0ZBZ0000562 |
| IC7304 | NJM2903M | INTEGRATED CIRCUIT | 1 | C0BBBA000019 |
| IC7401 | TC74HC244AF | IC | 1 | |

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|---|---|---|---|---|
| IC7402,03 | C0ZBZ0000138 | IC | 2 | C0ZBZ0000562 |
| IC7404 | NJM2903M | INTEGRATED CIRCUIT | 1 | C0BBBA000019 |
| IC8001 | M52036SP | LINEAR IC | 1 | C1AA00000392 |
| IC8002 | TC74HC14AF | IC | 1 | C0JBAB000155 |
| IC8003 | TC74LCX244F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAZ001234 |
| IC9000-02 | C0ABGB000001 | IC | 3 | |
| IC9003 | PQ09SZ1T | IC | 1 | C0CBAHG00005 |
| IC9004-06 | M52055FP | LINEAR IC | 3 | C1AB00000734 |
| IC9007-09 | C0FBAD000053 | IC | 3 | |
| IC9010 | PQ09SZ1T | IC | 1 | C0CBAHG00005 |
| IC9012 | CXA1315M | LINEAR IC | 1 | C1AB00000440 |
| IC9014 | PQ07VZ012ZP | IC | 1 | C0DBEZG00004 |
| IC9018 | PQ07VZ012ZP | IC | 1 | C0DBEZG00004 |
| IC9019-21 | C0ABZA000031 | IC | 3 | |
| IC9022 | PQ09SZ1T | IC | 1 | C0CBAHG00005 |
| IC9023 | PQ12SZ1T | IC | 1 | C0CBAKG00003 |
| IC9024 | PQ07VZ012ZP | IC | 1 | C0DBEZG00004 |
| IC9036 | TC74LCX244F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAZ001234 |
| IC9047,48 | TC74LCX244F | MOS IC (CMOS S/LOGIC) | 2 | C0JBAZ001234 |
| IC9057 | C0ZBZ0000268 | IC | 1 | |
| IC9061 | C3ABMJ000004 | IC | 1 | |
| IC9093 | TC74LCX244F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAZ001234 |
| IC9200,01 | C3HBMJ000004 | IC | 2 | |
| IC9202 | CXA1315M | LINEAR IC | 1 | C1AB00000440 |
| IC9204 | MN84503 | MOS IC | 1 | |
| IC9206 | TC74LCX244F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAZ001234 |
| IC9207 | TC74ACT244F | INTEGRATED CIRCUIT | 1 | C0JBAZ000448 |
| IC9209 | C3HBMJ000004 | IC | 1 | |
| IC9210 | C0JBAR000327 | IC | 1 | |
| IC9211 | TLC2932IPWL | LINEAR IC | 1 | C0ABFA000011 |
| IC9212 | TLC2933IPWL | INTEGRATED CIRCUIT | 1 | C0ABFA000012 |
| IC9213,14 | AN78L05M | LINEAR IC | 2 | |
| IC9215 | TLC2933IPWL | INTEGRATED CIRCUIT | 1 | C0ABFA000012 |
| IC9217 | AN78L05M | LINEAR IC | 1 | |
| IC9223 | TC74HC14AF | IC | 1 | C0JBAB000155 |
| IC9225,26 | TVRJ488 | ROM IC | 2 | |
| IC9250,51 | C3HBMJ000004 | IC | 2 | |
| IC9254 | MN84503 | MOS IC | 1 | |
| IC9259 | C3HBMJ000004 | IC | 1 | |

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|---|---|---|---|---|
| IC9302 | MN82860 | MOS IC | 1 | |
| IC9352 | MN82860 | MOS IC | 1 | |
| IC9400 | MN84502 | MOS IC | 1 | |
| IC9401 | TVSA0399 | ROM IC | 1 | C3FBKD000104 |
| IC9402,03 | C3ABPJ000008 | IC | 2 | |
| IC9450 | MN84502 | MOS IC | 1 | |
| IC9451 | TVSA0399 | ROM IC | 1 | C3FBKD000104 |
| IC9452,53 | C3ABPJ000008 | IC | 2 | |
| IC9501 | MN7E007P5B | MOS IC | 1 | |
| IC9502,03 | C3ABMJ000004 | IC | 2 | |
| IC9504,05 | TC74ACT244F | INTEGRATED CIRCUIT | 2 | C0JBAZ000448 |
| IC9506,07 | C3ABMJ000004 | IC | 2 | |
| IC9508,09 | MN7D029P5A | MOS IC | 2 | |
| IC9510,11 | TC74ACT244F | INTEGRATED CIRCUIT | 2 | C0JBAZ000448 |
| IC9512,13 | MN7D029P5A | MOS IC | 2 | |
| IC9516 | C0ZBZ0000268 | IC | 1 | |
| IC9520,21 | TC74ACT244F | INTEGRATED CIRCUIT | 2 | C0JBAZ000448 |
| IC9551 | MN7E007P5B | MOS IC | 1 | |
| IC9552 | C3ABMJ000004 | IC | 1 | |
| IC9554,55 | TC74ACT244F | INTEGRATED CIRCUIT | 2 | C0JBAZ000448 |
| IC9556,57 | C3ABMJ000004 | IC | 2 | |
| IC9558,59 | MN7D029P5A | MOS IC | 2 | |
| IC9560,61 | TC74ACT244F | INTEGRATED CIRCUIT | 2 | C0JBAZ000448 |
| IC9562,63 | MN7D029P5A | MOS IC | 2 | |
| IC9564,65 | TC74ACT244F | INTEGRATED CIRCUIT | 2 | C0JBAZ000448 |
| IC9701 | MN102L230 | IC | 1 | |
| IC9702 | HM538123BJ8Z | IC | 1 | C3HAHC000006 |
| IC9703 | MN1382R | MOS IC (MICON LSI) | 1 | MN1382-R |
| IC9704 | TC74ACT244F | INTEGRATED CIRCUIT | 1 | C0JBAZ000448 |
| IC9705 | TVSA0320 | ROM IC | 1 | C3FBLD000026 |
| IC9706 | TVRJ690 | INTEGRATED CIRCUIT | 1 | C3EBGC000018 |
| IC9707 | C0JBAF000405 | IC | 1 | |
| IC9708 | M51957BFP | LINEAR IC | 1 | C0EBB0000024 |
| IC9801 | C0ZBZ0000551 | IC | 1 | |
| IC9802-04 | C0JBAF000405 | IC | 3 | |
| IC9900 | C1ZBZ0001837 | IC | 1 | |
| IC9901 | TVRJ641 | IC | 1 | C3FAHA000001 |
| IC9902 | TC74HCU04AF | MOS IC (CMOS S/LOGIC) | 1 | C0JBAB000159 |
| IC9903-06 | TC74ACT244F | INTEGRATED CIRCUIT | 4 | C0JBAZ000448 |

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|---|---|---|---|---|
| IC9907 | C0ZBZ0000423 | IC | 1 | |
| IC9908 | PQ07VZ012ZP | IC | 1 | C0DBEZG00004 |
| IC9909 | PST9128NR | IC (LOGIC) | 1 | C0EBE0000066 |
| | | | | |
| J1 | K1KA50B00064 | 50P CONNECTOR | 1 | |
| J2,J3 | K1KA40B00076 | 40P CONNECTOR | 2 | |
| J6 | TJS1A8820 | 6P CONNECTOR | 1 | K1KA06A00220 |
| J8 | K1KA14B00088 | 14P CONNECTOR | 1 | |
| J9 | K1KA40A00140 | 40P CONNECTOR | 1 | |
| J10 | TJS1A8100 | PHONO PIN (4P) | 1 | K1KA04B00056 |
| J11 | TJS1A8090 | PHONO PIN (3P) | 1 | K1KA03B00045 |
| J13 | K1KA07B00051 | 7P CONNECTOR | 1 | |
| J14 | TJS3A8580 | 10P CONNECTOR | 1 | K1KA10B00148 |
| J3001 | TJS1A8130 | PHONO PIN (7P) | 1 | K1KA07B00026 |
| J3002 | TJS1A8100 | PHONO PIN (4P) | 1 | K1KA04B00056 |
| | | | | |
| JK3509 | TJS4A8390 | CONNECTOR | 1 | K1FB109B0058 |
| JK3511 | TJS8A9880 | CONNECTOR | 1 | K1FB115B0034 |
| JK3513 | K2HC103B0105 | JACK | 1 | |
| JK8500 | K4BC02B00013 | TERMINAL | 1 | |
| | | | | |
| JS401 | ERDS2TC0 | C 0 OHM, 1/4W | 1 | |
| JS2301 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| JS3001-06 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 6 | |
| JS8019 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| | | | | |
| L401,02 | TLPF102 | CHOKE COIL | 2 | G4D5A0000007 |
| L407 | ELEXH100KA | PEAKING COIL | 1 | |
| L411 | G0ZZ00001986 | COIL | 1 | |
| L412 | TLPF075 | CHOKE COIL | 1 | G0A221G00004 |
| L423,24 | EXCELSA39 | BEAD CHOKE | 2 | |
| L426 | EXCELSA39 | BEAD CHOKE | 1 | |
| L428 | TLPF075 | CHOKE COIL | 1 | G0A221G00004 |
| L430 | EXCELSA39 | BEAD CHOKE | 1 | |
| L431 | EXCELDR25C | BEAD CHOKE | 1 | |
| L433 | ERD25V0R00 | C 0 OHM, 1/4W | 1 | |
| L434 | G0ZZ00001987 | COIL | 1 | |
| L435 | EXCELDR25C | BEAD CHOKE | 1 | |
| L901 | G0A101L00002 | CHOKE COIL | 1 | ⚠ |

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|---|---|---|---|---|
| L902,03 | G0BYYYL00001 | CHOKE COIL | 2 | ⚠ |
| L951 | G0A2R2J00002 | LINE CHOKE COIL | 1 | |
| L952 | G1C100M00023 | INDUCTOR COIL | 1 | |
| L953 | TALL08N1R0NA | INDUCTION COIL | 1 | G0A1R0JA0003 |
| L981 | ELC10D180E | LC FILTER | 1 | |
| L1001,02 | ELJPA100KB | CHIP INDUCTOR | 2 | |
| L2301,02 | ELC10E680 | LC FILTER | 2 | |
| L2303,04 | EXCELDR35C | BEAD CHOKE | 2 | |
| L2306 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| L2401 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| L3001-07 | ELJPA100KB | CHIP INDUCTOR | 7 | |
| L3507-09 | TLK20LFA224M | EMI FILTER | 3 | J0HABB000004 |
| L3510-13 | TLK212T256AL | EMI FILTER | 4 | J0HAAB000012 |
| L3525,26 | ELJPA100KB | CHIP INDUCTOR | 2 | |
| L3530 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| L3555 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| L6601 | TSKA158 | BEAD CORE | 1 | G0ZZ00001935 |
| L6602 | TLPF075 | CHOKE COIL | 1 | G0A221G00004 |
| L6604,05 | TSKA158 | BEAD CORE | 2 | G0ZZ00001935 |
| L6607-09 | TSKA158 | BEAD CORE | 3 | G0ZZ00001935 |
| L6611-21 | TALL13N1R8MB | INDUCTION COIL | 11 | G0A1R8J00001 |
| L6622-24 | TSKA158 | BEAD CORE | 3 | G0ZZ00001935 |
| L6631-66 | TSKA158 | BEAD CORE | 36 | G0ZZ00001935 |
| L6667 | TSKA122 | CHIP INDUCTOR | 1 | J0JJC0000011 |
| L6668 | TSKA158 | BEAD CORE | 1 | G0ZZ00001935 |
| L6670 | TSKA158 | BEAD CORE | 1 | G0ZZ00001935 |
| L6671-73 | TSKA122 | CHIP INDUCTOR | 3 | J0JJC0000011 |
| L6701 | TSKA158 | BEAD CORE | 1 | G0ZZ00001935 |
| L6704 | TLPF075 | CHOKE COIL | 1 | G0A221G00004 |
| L6707-42 | TSKA158 | BEAD CORE | 36 | G0ZZ00001935 |
| L6743-53 | TALL13N1R8MB | INDUCTION COIL | 11 | G0A1R8J00001 |
| L6761,62 | TSKA122 | CHIP INDUCTOR | 2 | J0JJC0000011 |
| L6764 | TSKA158 | BEAD CORE | 1 | G0ZZ00001935 |
| L6765 | TSKA122 | CHIP INDUCTOR | 1 | J0JJC0000011 |
| L6766-68 | TSKA158 | BEAD CORE | 3 | G0ZZ00001935 |
| L6769,70 | TSKA122 | CHIP INDUCTOR | 2 | J0JJC0000011 |
| L6771 | TSKA158 | BEAD CORE | 1 | G0ZZ00001935 |
| L6773,74 | TSKA158 | BEAD CORE | 2 | G0ZZ00001935 |

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|---|---|---|---|---|
| L7101-08 | TSKA122 | CHIP INDUCTOR | 8 | J0JJC0000011 |
| L7131-36 | TSKA122 | CHIP INDUCTOR | 6 | J0JJC0000011 |
| L7161-68 | TSKA122 | CHIP INDUCTOR | 8 | J0JJC0000011 |
| L7201-08 | TSKA122 | CHIP INDUCTOR | 8 | J0JJC0000011 |
| L7231-36 | TSKA122 | CHIP INDUCTOR | 6 | J0JJC0000011 |
| L7261-68 | TSKA122 | CHIP INDUCTOR | 8 | J0JJC0000011 |
| L7301 | TSKA122 | CHIP INDUCTOR | 1 | J0JJC0000011 |
| L7303 | TSKA122 | CHIP INDUCTOR | 1 | J0JJC0000011 |
| L7312-23 | TSKA122 | CHIP INDUCTOR | 12 | J0JJC0000011 |
| L7325-29 | TLPF097 | CHOKE COIL | 5 | G1A1R0H00001 |
| L7401 | TSKA122 | CHIP INDUCTOR | 1 | J0JJC0000011 |
| L7403 | TSKA122 | CHIP INDUCTOR | 1 | J0JJC0000011 |
| L7412-23 | TSKA122 | CHIP INDUCTOR | 12 | J0JJC0000011 |
| L7425-29 | TLPF097 | CHOKE COIL | 5 | G1A1R0H00001 |
| L8001-03 | ELJPA100KB | CHIP INDUCTOR | 3 | |
| L8501,02 | TLPD061 | LINE FILTER | 2 | G0A2R5H00003 |
| L9001-03 | EXCCL3225U1 | EMI FILTER | 3 | |
| L9005 | ELJPA150KB | CHIP INDUCTOR | 1 | |
| L9006 | ELKE103FA | NOISE FILTER | 1 | |
| L9008-10 | EXCCL3225U1 | EMI FILTER | 3 | |
| L9017-19 | ELJFA1R0KB | CHIP INDUCTOR | 3 | |
| L9028 | TLTAZ100K | PEAKING COIL | 1 | G1C100KA0002 |
| L9036 | TLTAZ100K | PEAKING COIL | 1 | G1C100KA0002 |
| L9044 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| L9900 | ELJFBR33MB | CHIP INDUCTOR | 1 | |
| L9903 | ELJFBR33MB | CHIP INDUCTOR | 1 | |
| | | | | |
| LC9001-06 | ELKE103FA | NOISE FILTER | 6 | |
| LC9010 | J0E8004B0006 | LCR FILTER | 1 | |
| LC9011 | J0E2005B0004 | LCR FILTER | 1 | |
| LC9012 | J0E3505B0001 | LCR FILTER | 1 | |
| LC9014 | J0E8004B0006 | LCR FILTER | 1 | |
| LC9015 | J0E2005B0004 | LCR FILTER | 1 | |
| LC9016 | J0E3505B0001 | LCR FILTER | 1 | |
| LC9018 | J0E8004B0006 | LCR FILTER | 1 | |
| LC9019 | J0E2005B0004 | LCR FILTER | 1 | |
| LC9020 | J0E3505B0001 | LCR FILTER | 1 | |
| LC9023-32 | ELKE103FA | NOISE FILTER | 10 | |
| LC9801-03 | ELKE103FA | NOISE FILTER | 3 | |

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|---|---|---|---|---|
| LF400 | ELF11M010E | LINE FILTER | 1 | ⚠ |
| | | | | |
| P1 | TJS3A9900 | 10P CONNECTOR | 1 | K1KA10A00218 |
| P2 | TJS3A9920 | 12P CONNECTOR | 1 | K1KA12A00156 |
| P4 | TJS8A8570 | CONNECTOR | 1 | K1KA02A00104 |
| P5 | TJS1A8880 | 12P TERMINAL | 1 | K1KA12A00176 |
| P6 | TJS1A8840 | 8P CONNECTOR | 1 | K1KA08A00221 |
| P7 | TJS1A8850 | 9P CONNECTOR | 1 | K1KA09A00099 |
| P8 | TJS1A8790 | 3P CONNECTOR | 1 | K1KA03A00213 |
| P9 | TJS158130 | 2P CONNECTOR | 1 | K1KA02A00244 |
| P10-13 | TJS3A9640 | 3P CONNECTOR | 4 | K1KA03A00171 |
| P15A | TJS5A8850 | 13P CONNECTOR | 1 | K1KA13B00025 |
| P15 | TJS6A8600 | 13P CONNECTOR | 1 | |
| P16A | TJS5A8160 | CONNECTOR | 1 | K1KA08B00119 |
| P16 | TJS5A9420 | 8P CONNECTOR | 1 | K1KB08A00054 |
| P17 | TJS1A8870 | 11P CONNECTOR | 1 | K1KA11A00073 |
| P18A | TJS5A8520 | 10P CONNECTOR | 1 | K1KA10B00095 |
| P18 | TJS6A8160 | 10P CONNECTOR | 1 | K1KA10A00212 |
| P19A | TJS5A8830 | 11P CONNECTOR | 1 | K1KA11B00024 |
| P19 | TJS6A8580 | 11P CONNECTOR | 1 | K1KA11A00056 |
| P21A | TJS5A8830 | 11P CONNECTOR | 1 | K1KA11B00024 |
| P21 | TJS6A8580 | 11P CONNECTOR | 1 | K1KA11A00056 |
| P22A | TJS5A8160 | CONNECTOR | 1 | K1KA08B00119 |
| P22 | TJS5A9420 | 8P CONNECTOR | 1 | K1KB08A00054 |
| P26,27 | TJS1A8830 | CONNECTOR | 2 | K1KA07A00056 |
| P29A | TJS5A8760 | CONNECTOR | 1 | K1KA06B00089 |
| P29,30 | TJS5A9490 | 6P CONNECTOR | 2 | K1KB06A00053 |
| P41 | TJS8A8570 | CONNECTOR | 1 | K1KA02A00104 |
| P43 | TJS3A9680 | 7P CONNECTOR | 1 | K1KA07A00095 |
| | | | | |
| Q082 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q400,01 | 2SB1438 | TRANSISTOR | 2 | |
| Q402,03 | 2SK1917 | FET | 2 | |
| Q404,05 | 2SK3318000LB | FET | 2 | |
| Q406 | 2SC1384 | TRANSISTOR | 1 | 2SC13840W |
| Q407 | 2SA684 | TRANSISTOR | 1 | |
| Q408 | 2SC1384 | TRANSISTOR | 1 | 2SC13840W |
| Q409 | 2SA684 | TRANSISTOR | 1 | |

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|---|---|---|---|---|
| Q410,11 | 2SC1384 | TRANSISTOR | 2 | 2SC13840W |
| Q412-15 | 2SK2197 | TRANSISTOR | 4 | B1DAHQ000001 |
| Q416 | 2SK2847 | FET | 1 | B1DEFU000002 |
| Q417,18 | 2SC3311A | TRANSISTOR | 2 | 2SC3311AW |
| Q419 | 2SD2177R | TRANSISTOR | 1 | |
| Q421 | 2SA1309A | TRANSISTOR | 1 | 2SA13090WA |
| Q423,24 | 2SK3318000LB | FET | 2 | |
| Q425 | 2SD2177R | TRANSISTOR | 1 | |
| Q426 | 2SK2197 | TRANSISTOR | 1 | B1DAHQ000001 |
| Q427-29 | 2SC3311A | TRANSISTOR | 3 | 2SC3311AW |
| Q430 | 2SB621A | TRANSISTOR | 1 | 2SB0621AW |
| Q431 | 2SC3311A | TRANSISTOR | 1 | 2SC3311AW |
| Q432 | 2SA1309A | TRANSISTOR | 1 | 2SA13090WA |
| Q434 | 2SB940 | TRANSISTOR | 1 | 2SB09400P |
| Q436 | 2SC1473A | TRANSISTOR | 1 | 2SC1473AE |
| Q600 | 2SC3311A | TRANSISTOR | 1 | 2SC3311AW |
| Q601 | 2SA1309A | TRANSISTOR | 1 | 2SA13090WA |
| Q602 | 2SC3311A | TRANSISTOR | 1 | 2SC3311AW |
| Q635 | 2SC1473A | TRANSISTOR | 1 | 2SC1473AE |
| Q636 | 2SC3311A | TRANSISTOR | 1 | 2SC3311AW |
| Q650,51 | 2SC3311A | TRANSISTOR | 2 | 2SC3311AW |
| Q730 | 2SB1030A | TRANSISTOR | 1 | |
| Q750 | 2SC3311A | TRANSISTOR | 1 | 2SC3311AW |
| Q751 | 2SA1309A | TRANSISTOR | 1 | 2SA13090WA |
| Q775 | 2SC3311A | TRANSISTOR | 1 | 2SC3311AW |
| Q776 | 2SA1309A | TRANSISTOR | 1 | 2SA13090WA |
| Q921 | 2SK2847 | FET | 1 | B1DEFU000002 |
| Q922 | 2SK2475 | FET | 1 | |
| Q926 | 2SD1264 | TRANSISTOR | 1 | 2SD12640J |
| Q927 | 2SC1473A | TRANSISTOR | 1 | 2SC1473AE |
| Q932 | 2SB621A | TRANSISTOR | 1 | 2SB0621AW |
| Q933 | 2SC3311A | TRANSISTOR | 1 | 2SC3311AW |
| Q951 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q1001-03 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| Q1004,05 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q2301-06 | 2SD601A | TRANSISTOR | 6 | 2SD0601A |
| Q2406 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q2408 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q2410 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |

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|---|---|---|---|---|
| Q3001 | 2SC2480 | TRANSISTOR | 1 | |
| Q3002 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3003 | 2SC2480 | TRANSISTOR | 1 | |
| Q3004 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3005 | 2SC2480 | TRANSISTOR | 1 | |
| Q3006,07 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q3008 | 2SC2480 | TRANSISTOR | 1 | |
| Q3009 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3010 | 2SC2480 | TRANSISTOR | 1 | |
| Q3011 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3012 | 2SC2480 | TRANSISTOR | 1 | |
| Q3085,86 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q3507-09 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| Q3513 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q3514 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3515 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q3516 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3531,32 | 2SD601A | TRANSISTOR | 2 | 2SD0601A |
| Q6511,12 | 2SK2993 | FET | 2 | |
| Q6513-17 | 2SB1571 | TRANSISTOR | 5 | |
| Q6518 | 2SC1473A | TRANSISTOR | 1 | 2SC1473AE |
| Q6519 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q6520 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q6521 | FS7VS14AT11 | FET | 1 | |
| Q6522-29 | 2SK319200SVE | FET | 8 | |
| Q6531 | 2SK2673 | FET | 1 | |
| Q6532-39 | 2SK319200SVE | FET | 8 | |
| Q6541-43 | FS7VS14AT11 | FET | 3 | |
| Q6545,46 | 2SD601A | TRANSISTOR | 2 | 2SD0601A |
| Q6601-06 | 2SK319200SVE | FET | 6 | |
| Q6607-10 | 2SK3192000LB | FET | 4 | |
| Q6611-18 | 2SK319200SVE | FET | 8 | |
| Q6621-28 | 2SK319200SVE | FET | 8 | |
| Q6631 | 2SD2402 | TRANSISTOR | 1 | |
| Q6632 | 2SB1571 | TRANSISTOR | 1 | |
| Q6633 | 2SD2402 | TRANSISTOR | 1 | |
| Q6634 | 2SB1571 | TRANSISTOR | 1 | |
| Q6635 | 2SD2402 | TRANSISTOR | 1 | |
| Q6636 | 2SB1571 | TRANSISTOR | 1 | |

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|---|---|---|---|---|
| Q6637 | 2SD2402 | TRANSISTOR | 1 | |
| Q6638 | 2SB1571 | TRANSISTOR | 1 | |
| Q6641 | 2SD2402 | TRANSISTOR | 1 | |
| Q6642 | 2SB1571 | TRANSISTOR | 1 | |
| Q6643 | 2SD2402 | TRANSISTOR | 1 | |
| Q6644 | 2SB1571 | TRANSISTOR | 1 | |
| Q6645 | 2SD2402 | TRANSISTOR | 1 | |
| Q6646 | 2SB1571 | TRANSISTOR | 1 | |
| Q6647 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q6648 | 2SD1263A | TRANSISTOR | 1 | |
| Q6649 | 2SC1473A | TRANSISTOR | 1 | 2SC1473AE |
| Q6650 | 2SA1767Q | TRANSISTOR | 1 | 2SA17670Q |
| Q6701 | 2SD2402 | TRANSISTOR | 1 | |
| Q6702 | 2SB1571 | TRANSISTOR | 1 | |
| Q6703-06 | 2SK319200SVE | FET | 4 | |
| Q6712 | 2SD2402 | TRANSISTOR | 1 | |
| Q6713 | 2SB1571 | TRANSISTOR | 1 | |
| Q6714-17 | 2SK319200SVE | FET | 4 | |
| Q6721 | 2SD2402 | TRANSISTOR | 1 | |
| Q6722 | 2SB1571 | TRANSISTOR | 1 | |
| Q6723 | 2SD2402 | TRANSISTOR | 1 | |
| Q6724 | 2SB1571 | TRANSISTOR | 1 | |
| Q6727-32 | 2SK319200SVE | FET | 6 | |
| Q6740 | 2SD2402 | TRANSISTOR | 1 | |
| Q6741 | 2SB1571 | TRANSISTOR | 1 | |
| Q6744 | 2SD2402 | TRANSISTOR | 1 | |
| Q6745 | 2SB1571 | TRANSISTOR | 1 | |
| Q6746-53 | 2SK319200SVE | FET | 8 | |
| Q6761,62 | 2SK326800L | FET | 2 | |
| Q6763 | 2SK319200SVE | FET | 1 | |
| Q6764 | 2SK3192000LB | FET | 1 | |
| Q6765 | 2SD2402 | TRANSISTOR | 1 | |
| Q6766 | 2SB1571 | TRANSISTOR | 1 | |
| Q6777 | 2SD1263A | TRANSISTOR | 1 | |
| Q6778,79 | 2SC1473 | TRANSISTOR | 2 | 2SC14730E |
| Q7261,62 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q7311-16 | 2SK326900L | FET | 6 | |
| Q7317 | 2SD2185 | TRANSISTOR | 1 | |
| Q7318 | 2SB1440 | TRANSISTOR | 1 | 2SB14400H |

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|---|---|---|---|---|
| Q7319 | 2SD2185 | TRANSISTOR | 1 | |
| Q7320 | 2SB1440 | TRANSISTOR | 1 | 2SB14400H |
| Q7411-16 | 2SK326900L | FET | 6 | |
| Q7417 | 2SD2185 | TRANSISTOR | 1 | |
| Q7418 | 2SB1440 | TRANSISTOR | 1 | 2SB14400H |
| Q7419 | 2SD2185 | TRANSISTOR | 1 | |
| Q7420 | 2SB1440 | TRANSISTOR | 1 | 2SB14400H |
| Q8021 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q8030 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q8900,01 | 2SD601A | TRANSISTOR | 2 | 2SD0601A |
| Q9001-03 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| Q9005-07 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| Q9009-11 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| Q9013-16 | 2SD601A | TRANSISTOR | 4 | 2SD0601A |
| Q9017-20 | 2SK620 | FET | 4 | 2SK0620 |
| Q9022 | 2SK620 | FET | 1 | 2SK0620 |
| Q9050,51 | 2SK620 | FET | 2 | 2SK0620 |
| Q9701 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q9901-03 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| | | | | |
| R081 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 1 | |
| R082 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 1 | |
| R083 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 1 | |
| R084 | ERJ6GEYJ271 | M 270 OHM,J,1/10W | 1 | |
| R087 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R088 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R400-05 | TARAFR06R8JC | F 6.8 OHM, J, 7W | 6 | |
| R406,07 | ERDS1FJ824 | C 820KOHM, J,1/2W | 2 | |
| R408 | ER0S2CKF1823 | M 182KOHM, F,1/4W | 1 | EROS2CKF1823 |
| R409 | ER0S2CKF1503 | M 150KOHM, F,1/4W | 1 | |
| R410 | ERG3FJS333D | M 33KOHM, J, 3W | 1 | |
| R411,12 | ERDS1FJ103 | C 10KOHM, J,1/2W | 2 | |
| R413 | ERG1FJS220D | M 22 OHM, J, 1W | 1 | |
| R414,15 | ERDS1FJ100 | C 10 OHM, J,1/2W | 2 | |
| R416 | ERG2FJS820D | M 82 OHM, J, 2W | 1 | |
| R417 | ERDS1FJ221 | C 220 OHM, J,1/2W | 1 | |
| R419,20 | ERDS1FJ103 | C 10KOHM, J,1/2W | 2 | |
| R421,22 | ERDS1FJ100 | C 10 OHM, J,1/2W | 2 | |
| R423,24 | ERDS1FJ103 | C 10KOHM, J,1/2W | 2 | |

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|---|---|---|---|---|
| R425 | ERF5EKR10 | W 0.1 OHM, 5W | 1 | |
| R426 | ERF5EKR15 | W0.15 OHM, 5W | 1 | |
| R427,28 | ERG3FJS471D | M 470 OHM, J, 3W | 2 | |
| R429 | ER0S2CKF1823 | M 182KOHM, F,1/4W | 1 | EROS2CKF1823 |
| R430 | ER0S2CKF1623 | M 162KOHM, F,1/4W | 1 | |
| R432 | ERG3FJS333D | M 33KOHM, J, 3W | 1 | |
| R433 | ERDS1FJ472 | C 4.7KOHM, J,1/2W | 1 | |
| R434,35 | ERDS1FJ101 | C 100 OHM, J,1/2W | 2 | |
| R436,37 | ERDS1FJ220 | C 22 OHM, J,1/2W | 2 | |
| R438 | ER0S2CKF1823 | M 182KOHM, F,1/4W | 1 | EROS2CKF1823 |
| R439 | ER0S2CKF1623 | M 162KOHM, F,1/4W | 1 | |
| R440 | ERX3FJSR47D | M0.47 OHM, J, 3W | 1 | |
| R441,42 | ERDS1FJ222 | C 2.2KOHM, J,1/2W | 2 | |
| R443,44 | ERDS1FJ100 | C 10 OHM, J,1/2W | 2 | |
| R445 | ERDS2TJ103 | C 10KOHM, J,1/4W | 1 | |
| R446 | ERDS1FJ472 | C 4.7KOHM, J,1/2W | 1 | |
| R447,48 | ERDS1FJ103 | C 10KOHM, J,1/2W | 2 | |
| R449,50 | ERG5FJ473H | M 47KOHM, J, 5W | 2 | |
| R451 | ERDS2TJ103 | C 10KOHM, J,1/4W | 1 | |
| R452 | ERG3FJS823D | M 82KOHM, J, 3W | 1 | |
| R453 | ERG1FJS104D | M 100KOHM, J, 1W | 1 | |
| R454 | ERG3FJS823D | M 82KOHM, J, 3W | 1 | |
| R456,57 | ERDS1FJ103 | C 10KOHM, J,1/2W | 2 | |
| R458 | ERDS2TJ101 | C 100 OHM, J,1/4W | 1 | |
| R459 | ERX2FJSR22D | M0.22 OHM, J, 2W | 1 | |
| R460 | ERDS2TJ6R8 | C 6.8 OHM, J,1/4W | 1 | |
| R461 | ERX2FJSR22D | M0.22 OHM, J, 2W | 1 | |
| R462 | ERF5EKR10 | W 0.1 OHM, 5W | 1 | |
| R463 | ERF5EKR15 | W0.15 OHM, 5W | 1 | |
| R464 | ERDS2TJ102 | C 1KOHM, J,1/4W | 1 | |
| R465 | ERDS2TJ6R8 | C 6.8 OHM, J,1/4W | 1 | |
| R466 | ERDS2TJ102 | C 1KOHM, J,1/4W | 1 | |
| R467 | ERDS1FJ221 | C 220 OHM, J,1/2W | 1 | |
| R468 | ERDS2TJ103 | C 10KOHM, J,1/4W | 1 | |
| R469 | ERG1FJS220D | M 22 OHM, J, 1W | 1 | |
| R470 | ERDS1FJ221 | C 220 OHM, J,1/2W | 1 | |
| R471 | ERDS1FJ391 | C 390 OHM, J,1/2W | 1 | |
| R472 | ERDS1FJ100 | C 10 OHM, J,1/2W | 1 | |
| R474,75 | ERDS2TJ104 | C 100KOHM, J,1/4W | 2 | |

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|---|---|---|---|---|
| R476 | ERDS1FJ100 | C 10 OHM, J,1/2W | 1 | |
| R478 | ERDS2TJ223 | C 22KOHM, J,1/4W | 1 | |
| R481 | ERDS2TJ472 | C 4.7KOHM, J,1/4W | 1 | |
| R482 | ERG2FJS183D | M 18KOHM, J, 2W | 1 | |
| R484 | ERG2FJS183D | M 18KOHM, J, 2W | 1 | |
| R487 | ERDS2TJ101 | C 100 OHM, J,1/4W | 1 | |
| R488 | ERDS2TJ470 | C 47 OHM, J,1/4W | 1 | |
| R489 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R492 | ERDS2TJ223 | C 22KOHM, J,1/4W | 1 | |
| R493 | ERDS2TJ472 | C 4.7KOHM, J,1/4W | 1 | |
| R495 | ERDS1FJ471 | C 470 OHM, J,1/2W | 1 | |
| R496 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R500 | ERDS2TJ471 | C 470 OHM, J,1/4W | 1 | |
| R502 | ERDS2TJ472 | C 4.7KOHM, J,1/4W | 1 | |
| R503 | ERDS2TJ220 | C 22 OHM, J,1/4W | 1 | |
| R504 | ERDS2TJ152 | C 1.5KOHM, J,1/4W | 1 | |
| R505 | ERDS2TJ682 | C 6.8KOHM, J,1/4W | 1 | |
| R506 | ERDS1FJ220 | C 22 OHM, J,1/2W | 1 | |
| R508 | ERDS2TJ683 | C 68KOHM, J,1/4W | 1 | |
| R510 | ER0S2CKF2551 | M2.55KOHM, F,1/4W | 1 | EROS2CKF2551 |
| R511 | ER0S2CKF4702 | M 47KOHM, F,1/4W | 1 | EROS2CKF4702 |
| R512 | ER0S2CKF2202 | M 22KOHM, F,1/4W | 1 | |
| R513 | EVMEASA00B54 | CONTROL 50KOHMB 0.3W | 1 | |
| R514 | ERDS2TJ222 | C 2.2KOHM, J,1/4W | 1 | |
| R515 | ER0S2CKF1691 | M1.69KOHM, F,1/4W | 1 | EROS2CKF1691 |
| R516-19 | ERDS2TJ223 | C 22KOHM, J,1/4W | 4 | |
| R521-23 | ERX2FJS1R5D | M 1.5 OHM, J, 2W | 3 | |
| R528 | EVMEASA00B14 | CONTROL 10KOHMB 0.3W | 1 | |
| R529 | ERDS2TJ223 | C 22KOHM, J,1/4W | 1 | |
| R531 | ERDS2TJ682 | C 6.8KOHM, J,1/4W | 1 | |
| R532 | ERDS2TJ152 | C 1.5KOHM, J,1/4W | 1 | |
| R533 | ERDS2TJ680 | C 68 OHM, J,1/4W | 1 | |
| R534 | ERDS2TJ153 | C 15KOHM, J,1/4W | 1 | |
| R535 | ERDS2TJ332 | C 3.3KOHM, J,1/4W | 1 | |
| R536 | ERG1FJS561D | M 560 OHM, J, 1W | 1 | |
| R537 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R538 | ERDS2TJ151 | C 150 OHM, J,1/4W | 1 | |
| R539 | ERG3FJS390D | M 39 OHM, J, 3W | 1 | |
| R540 | ERDS2TJ682 | C 6.8KOHM, J,1/4W | 1 | |

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|---|---|---|---|---|
| R541 | ERG2FJS103D | M 10KOHM, J, 2W | 1 | |
| R542 | ERG2FJS223D | M 22KOHM, J, 2W | 1 | |
| R543 | ER0S2CKF3651 | M3.65KOHM, F,1/4W | 1 | EROS2CKF3651 |
| R544 | ER0S2CKF3830 | M 383 OHM, F,1/4W | 1 | |
| R548 | EVMEASA00B24 | CONTROL 20KOHMB 0.3W | 1 | |
| R549 | ERDS1FJ100 | C 10 OHM, J,1/2W | 1 | |
| R552 | ERDS1FJ220 | C 22 OHM, J,1/2W | 1 | |
| R554 | ERDS2TJ103 | C 10KOHM, J,1/4W | 1 | |
| R555 | ERDS2TJ472 | C 4.7KOHM, J,1/4W | 1 | |
| R556 | ERDS2TJ103 | C 10KOHM, J,1/4W | 1 | |
| R557 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R558 | ERDS2TJ470 | C 47 OHM, J,1/4W | 1 | |
| R559 | ERDS2TJ472 | C 4.7KOHM, J,1/4W | 1 | |
| R560 | ERDS2TJ561 | C 560 OHM, J,1/4W | 1 | |
| R561 | ERDS2TJ471 | C 470 OHM, J,1/4W | 1 | |
| R562 | ERDS2TJ103 | C 10KOHM, J,1/4W | 1 | |
| R563 | ERDS2TJ473 | C 47KOHM, J,1/4W | 1 | |
| R564-66 | ERG3FJS823D | M 82KOHM, J, 3W | 3 | |
| R567,68 | ERG2FJS471D | M 470 OHM, J, 2W | 2 | |
| R569 | ER0S2CKF4421 | M4.42KOHM, F,1/4W | 1 | |
| R571,72 | ERQ14AJ100P | F 10 OHM, J,1/4W | 2 | |
| R573 | ERQ14AJ221P | F 220 OHM, J,1/4W | 1 | |
| R576 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R580 | ERDS2TJ153 | C 15KOHM, J,1/4W | 1 | |
| R581 | ERDS2TJ333 | C 33KOHM, J,1/4W | 1 | |
| R582 | ERDS2TJ102 | C 1KOHM, J,1/4W | 1 | |
| R583 | ERDS2TJ223 | C 22KOHM, J,1/4W | 1 | |
| R600 | ERJ6GEYJ823 | M 82KOHM,J,1/10W | 1 | |
| R601 | ERJ6GEYJ393 | M 39KOHM,J,1/10W | 1 | |
| R602 | ERJ6GEYJ562 | M 5.6KOHM,J,1/10W | 1 | |
| R603,04 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 2 | |
| R605 | ERG12SJ101P | M 100 OHM, J,1/2W | 1 | |
| R606,07 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 2 | |
| R608 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R609 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R610 | ERJ6GEYJ823 | M 82KOHM,J,1/10W | 1 | |
| R611 | ERJ6GEYJ393 | M 39KOHM,J,1/10W | 1 | |
| R612 | ERG12SJ101P | M 100 OHM, J,1/2W | 1 | |
| R613 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R614 | ERJ6GEYJ221 | M 220 OHM,J,1/10W | 1 | |
| R616 | ERJ6ENF1102 | M 11KOHM, 1/10W | 1 | |
| R617 | ERJ6GEYJ393 | M 39KOHM,J,1/10W | 1 | |
| R618 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R619 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |
| R620 | ERJ6GEYJ562 | M 5.6KOHM,J,1/10W | 1 | |
| R621 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R622 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R623 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R630 | ERD25FJ102 | C 1KOHM, J,1/4W | 1 | |
| R632 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |
| R634 | ERJ6GEYJ474 | M 470KOHM,J,1/10W | 1 | |
| R635 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R636 | ERJ6GEYJ682 | M 6.8KOHM,J,1/10W | 1 | |
| R638 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R639 | EVMEGSA00B54 | CONTROL 50KOHMB | 1 | |
| R640 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |
| R641 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R642 | ERJ6ENF2491 | M2.49KOHM, 1/10W | 1 | |
| R644 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R645-47 | ERJ6ENF6802 | M 68KOHM, 1/10W | 3 | |
| R648 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |
| R649 | ERJ6GEYJ563 | M 56KOHM,J,1/10W | 1 | |
| R650 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R651 | ERJ6GEYJ563 | M 56KOHM,J,1/10W | 1 | |
| R652,53 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 2 | |
| R654 | ERG1FJS561D | M 560 OHM, J, 1W | 1 | |
| R655 | ERD25FJ471 | C 470 OHM, J,1/4W | 1 | |
| R656 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R657 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R658 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R659 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R661 | ERD25FJ822 | C 8.2KOHM, J,1/4W | 1 | |
| R662 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 1 | |
| R663 | ERX12SJ4R7 | M 4.7 OHM, J,1/2W | 1 | |
| R664 | ERX1FJS8R2D | M 8.2 OHM, J, 1W | 1 | |
| R665 | ERDS1FJ100 | C 10 OHM, J,1/2W | 1 | |
| R666 | ERJ6GEYJ182 | M 1.8KOHM,J,1/10W | 1 | |
| R667 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R668 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R700 | ERJ6GEYJ391 | M 390 OHM,J,1/10W | 1 | |
| R701,02 | ERJ6GEYJ680 | M 68 OHM,J,1/10W | 2 | |
| R703 | ERJ6GEYJ271 | M 270 OHM,J,1/10W | 1 | |
| R704 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R705 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R706 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R707 | ERJ6GEYJ155 | M 1.5MOHM,J,1/10W | 1 | |
| R708 | ERJ6GEYJ241 | M 240 OHM,J,1/10W | 1 | |
| R709 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R710 | ERJ6GEYJ561 | M 560 OHM,J,1/10W | 1 | |
| R711 | ERJ6GEYJ182 | M 1.8KOHM,J,1/10W | 1 | |
| R712 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R713,14 | ERJ6ENF1501 | M 1.5KOHM, 1/10W | 2 | |
| R715 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R716 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R717 | ERJ6ENF4701 | M 4.7KOHM, 1/10W | 1 | |
| R718,19 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R720 | ERD25FJ472 | C 4.7KOHM, J,1/4W | 1 | |
| R721 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R722 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R723 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R724 | ERJ6ENF1501 | M 1.5KOHM, 1/10W | 1 | |
| R725 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R726 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R750 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R751 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R752 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R753 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R754 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R755 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R756 | ERJ6ENF1913 | M19.1KOHM, 1/10W | 1 | |
| R758 | ERJ6GEYJ154 | M 150KOHM,J,1/10W | 1 | |
| R759 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R760 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R761 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R762 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R763 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R764 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R765 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R766 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R767 | ERJ6ENF2003 | M 200KOHM, 1/10W | 1 | |
| R768 | ERJ6ENF6192 | M61.9KOHM, 1/10W | 1 | |
| R769,70 | ERJ6ENF1003 | M 100KOHM, 1/10W | 2 | |
| R775,76 | ERD25FJ223 | C 22KOHM, J,1/4W | 2 | |
| R777 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R778 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 1 | |
| R779-82 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 4 | |
| R783 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R784 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R785,86 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R787 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R788 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R789 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R793,94 | ERJ6GEYJ273 | M 27KOHM,J,1/10W | 2 | |
| R795,96 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 2 | |
| R797 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |
| R798 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R799 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R900,01 | ERC12ZGK105 | S 1MOHM, K,1/2W | 2 | |
| R921 | ERDS1FJ100 | C 10 OHM, J,1/2W | 1 | |
| R922 | ERX12SJ4R7 | M 4.7 OHM, J,1/2W | 1 | |
| R923 | ERDS2TJ681 | C 680 OHM, J,1/4W | 1 | |
| R924 | ERDS2TJ182 | C 1.8KOHM, J,1/4W | 1 | |
| R925 | ERDS2TJ152 | C 1.5KOHM, J,1/4W | 1 | |
| R926 | ERX2FJSR68D | M0.68 OHM, J, 2W | 1 | |
| R927 | ERDS2TJ124 | C 120KOHM, J,1/4W | 1 | |
| R928 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R929 | ERDS2TJ472 | C 4.7KOHM, J,1/4W | 1 | |
| R930 | ERX1FJS8R2D | M 8.2 OHM, J, 1W | 1 | |
| R931 | ERDS2TJ103 | C 10KOHM, J,1/4W | 1 | |
| R933 | ERDS2TJ101 | C 100 OHM, J,1/4W | 1 | |
| R934 | ERDS2TJ153 | C 15KOHM, J,1/4W | 1 | |
| R935,36 | ERG2FJS104D | M 100KOHM, J, 2W | 2 | |
| R937 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R938 | ERG1FJS151D | M 150 OHM, J, 1W | 1 | |
| R947 | ERG3FJS104D | M 100KOHM, J, 3W | 1 | |
| R949 | ERDS1FJ471 | C 470 OHM, J,1/2W | 1 | |

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|---|---|---|---|---|
| R950 | ERDS1FJ220 | C 22 OHM, J,1/2W | 1 | |
| R951 | ERDS2TJ682 | C 6.8KOHM, J,1/4W | 1 | P4-BOARD |
| R951 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | J-BOARD |
| R952 | ERDS2TJ472 | C 4.7KOHM, J,1/4W | 1 | P4-BOARD |
| R952 | ERJ6GEYJ105 | M 1MOHM,J,1/10W | 1 | J-BOARD |
| R953 | ERDS2TJ682 | C 6.8KOHM, J,1/4W | 1 | P4-BOARD |
| R953 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | J-BOARD |
| R954 | ERDS2TJ151 | C 150 OHM, J,1/4W | 1 | P4-BOARD |
| R954 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | J-BOARD |
| R955 | ERDS2TJ682 | C 6.8KOHM, J,1/4W | 1 | P4-BOARD |
| R955 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | J-BOARD |
| R956 | ERDS2TJ153 | C 15KOHM, J,1/4W | 1 | P4-BOARD |
| R956 | ERJ6GEYJ220 | M 22 OHM,J,1/10W | 1 | J-BOARD |
| R957 | ERDS2TJ392 | C 3.9KOHM, J,1/4W | 1 | P4-BOARD |
| R957 | ERX12ZJR15 | M0.15 OHM, J,1/2W | 1 | ERX12SZJR15<br>J-BOARD |
| R958 | ERDS2TJ152 | C 1.5KOHM, J,1/4W | 1 | P4-BOARD |
| R958 | ERX12ZJR15 | M0.15 OHM, J,1/2W | 1 | ERX12SZJR15<br>J-BOARD |
| R959 | ERDS2TJ623 | C 62KOHM, J,1/4W | 1 | P4-BOARD |
| R959 | ERX12ZJR15 | M0.15 OHM, J,1/2W | 1 | ERX12SZJR15<br>J-BOARD |
| R960 | ERJ6ENF9310 | M 931 OHM, 1/10W | 1 | J-BOARD |
| R960 | EVMEASA00B24 | CONTROL 20KOHMB 0.3W | 1 | P4-BOARD |
| R961 | ERDS2TJ222 | C 2.2KOHM, J,1/4W | 1 | P4-BOARD |
| R961 | ERJ6ENF2201 | M 2.2KOHM, 1/10W | 1 | J-BOARD |
| R962 | ERG3FJS472D | M 4.7KOHM, J, 3W | 1 | |
| R963 | ERG3FJS183D | M 18KOHM, J, 3W | 1 | |
| R964 | ERG12SJ100 | M 10 OHM, J,1/2W | 1 | |
| R965 | ERDS2TJ152 | C 1.5KOHM, J,1/4W | 1 | |
| R966 | ERDS2TJ683 | C 68KOHM, J,1/4W | 1 | |
| R967 | EVMEASA00B24 | CONTROL 20KOHMB 0.3W | 1 | |
| R968 | ERDS2TJ152 | C 1.5KOHM, J,1/4W | 1 | |
| R969 | ERDS2TJ182 | C 1.8KOHM, J,1/4W | 1 | |
| R970 | ERDS2TJ104 | C 100KOHM, J,1/4W | 1 | |
| R981 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R982 | ERJ6GEYJ105 | M 1MOHM,J,1/10W | 1 | |
| R983,84 | ERX12SJR12P | M 12 OHM, J,1/2W | 2 | |
| R985 | ERJ6ENF1800 | M 180 OHM, 1/10W | 1 | |
| R986 | ERJ6ENF1001 | M 1KOHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R987 | ERJ6ENF1800 | M 180 OHM, 1/10W | 1 | |
| R988 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R989 | ERJ6ENF2001 | M 2KOHM, 1/10W | 1 | |
| R1001-04 | EXB38V330J | RESISTOR ARRAY | 4 | |
| R1006-08 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 3 | |
| R1009-11 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 3 | |
| R1012,13 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R1014-18 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 5 | |
| R1019 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1020,21 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R1022 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1023-25 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 3 | |
| R1026 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1027 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1028 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1029,30 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R1031 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1032-35 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 4 | |
| R1036 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1037 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1038 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1039 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1040 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1041-45 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 5 | |
| R1046 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1047 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1048-52 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 5 | |
| R1053 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1054 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1055,56 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R1057 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R1058 | ERJ3GEYJ105 | M 1MOHM,J,1/16W | 1 | |
| R1059 | ERJ6ENF2402 | M 24KOHM, 1/10W | 1 | |
| R1060,61 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R1062 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R1063 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1064 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R1065 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1066 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R1067 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1068 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R1069 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R1070 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R1071 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R1072 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R1554,55 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 2 | |
| R2301 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R2304 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R2305,06 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 2 | |
| R2307 | ERJ6GEYJ683 | M 68KOHM,J,1/10W | 1 | |
| R2308 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R2309 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R2310 | ERJ6GEYJ562 | M 5.6KOHM,J,1/10W | 1 | |
| R2319,20 | ERJ6GEYJ561 | M 560 OHM,J,1/10W | 2 | |
| R2321 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R2322,23 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 2 | |
| R2324,25 | ERJ6GEYJ561 | M 560 OHM,J,1/10W | 2 | |
| R2326 | ERJ6GEYJ123 | M 12KOHM,J,1/10W | 1 | |
| R2327 | ERJ6GEYJ752 | M 7.5KOHM,J,1/10W | 1 | |
| R2328 | ERJ6GEYJ683 | M 68KOHM,J,1/10W | 1 | |
| R2329,30 | ERJ6GEYJ332 | M 3.3KOHM,J,1/10W | 2 | |
| R2331 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R2332 | ERJ6GEYJ182 | M 1.8KOHM,J,1/10W | 1 | |
| R2333 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 1 | |
| R2334 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R2335,36 | ERJ6GEYJ123 | M 12KOHM,J,1/10W | 2 | |
| R2341 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R2342 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R2343 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R2344 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R2345 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 1 | |
| R2346 | ERJ6GEYJ123 | M 12KOHM,J,1/10W | 1 | |
| R2347 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R2348 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R2408 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R2410 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R2431 | ERJ6GEYJ123 | M 12KOHM,J,1/10W | 1 | |
| R2434 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R2438 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R2439 | ERJ6GEYJ563 | M 56KOHM,J,1/10W | 1 | |
| R2440 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R2441 | ERJ6GEYJ123 | M 12KOHM,J,1/10W | 1 | |
| R2445 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R2448 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R2450 | ERJ6GEYJ563 | M 56KOHM,J,1/10W | 1 | |
| R2452 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R2453 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R2456 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R2457 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |
| R2460 | ERJ6ENF1802 | M 18KOHM, 1/10W | 1 | |
| R2461,62 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R2463 | ERJ6ENF1502 | M 15KOHM, 1/10W | 1 | |
| R2464 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R2466 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R2467 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 1 | |
| R2468 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R2469 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R2470 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R2471 | ERJ6GEYJ182 | M 1.8KOHM,J,1/10W | 1 | |
| R2472 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R2473 | ERJ6GEYJ182 | M 1.8KOHM,J,1/10W | 1 | |
| R2476,77 | ERJ6GEYJ220 | M 22 OHM,J,1/10W | 2 | |
| R2480 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R2481,82 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 2 | |
| R2483 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R2484 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |
| R3001-04 | ERJ6GEYJ560 | M 56 OHM,J,1/10W | 4 | |
| R3007 | ERJ6GEYJ560 | M 56 OHM,J,1/10W | 1 | |
| R3009-15 | ERJ6GEYJ560 | M 56 OHM,J,1/10W | 7 | |
| R3016-21 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 6 | |
| R3022,23 | ERJ6GEYJ562 | M 5.6KOHM,J,1/10W | 2 | |
| R3024-29 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 6 | |
| R3030,31 | ERJ6GEYJ562 | M 5.6KOHM,J,1/10W | 2 | |
| R3032,33 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 2 | |
| R3034,35 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R3042,43 | ERG3FJ330H | M 33 OHM, J, 3W | 2 | |
| R3045 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |

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| R3046 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R3047 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R3048-50 | ERJ8ENF75R0 | M 75 OHM, 1/8W | 3 | |
| R3051-53 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 3 | |
| R3054-59 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 6 | |
| R3060-63 | ERJ6GEYJ122 | M 1.2KOHM,J,1/10W | 4 | |
| R3064,65 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3066 | ERJ6GEYJ122 | M 1.2KOHM,J,1/10W | 1 | |
| R3067,68 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3069 | ERJ6GEYJ122 | M 1.2KOHM,J,1/10W | 1 | |
| R3070,71 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3075-77 | ERJ6GEYJ121 | M 120 OHM,J,1/10W | 3 | |
| R3087,88 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R3101-08 | ERJ6GEYJ334 | M 330KOHM,J,1/10W | 8 | |
| R3109 | ERJ3GEYJ473 | M 47KOHM,J,1/16W | 1 | |
| R3400 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R3508,09 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 2 | |
| R3510,11 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3526-28 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 3 | |
| R3529,30 | ERJ6GEYJ184 | M 180KOHM,J,1/10W | 2 | |
| R3537,38 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 2 | |
| R3540 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R3547,48 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3577 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 1 | |
| R3578 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |
| R3579 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 1 | |
| R3580 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |
| R3581 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 1 | |
| R3582 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |
| R3585,86 | ERJ6GEYJ560 | M 56 OHM,J,1/10W | 2 | |
| R3589 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R3590 | ERJ6GEYJ560 | M 56 OHM,J,1/10W | 1 | |
| R3595-97 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 3 | |
| R3599 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3603,04 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3611-14 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 4 | |
| R3626-29 | ERJ6GEYJ3R3 | M 3.3KOHM,J,1/10W | 4 | |
| R3653 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 1 | |
| R3654 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R3655 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 1 | |
| R3656 | ERJ6GEYJ333 | M 33KOHM,J,1/10W | 1 | |
| R3663,64 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 2 | |
| R3668 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3672 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3755,56 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3764-66 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 3 | |
| R3776,77 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R3778 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R6401-06 | ERJ6GEYJ221 | M 220 OHM,J,1/10W | 6 | |
| R6407,08 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R6421-26 | ERJ6GEYJ221 | M 220 OHM,J,1/10W | 6 | |
| R6427,28 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R6442 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R6444 | ERJ6GEYJ392 | M 3.9KOHM,J,1/10W | 1 | |
| R6445 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6446,47 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 2 | |
| R6448 | ERG1FJS471D | M 470 OHM, J, 1W | 1 | |
| R6449 | ERX1FJS3R3D | M 3.2 OHM, J, 1W | 1 | |
| R6450 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R6451 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R6452,53 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 2 | |
| R6461-67 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 7 | |
| R6468 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R6469 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 1 | |
| R6470 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6471 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 1 | |
| R6472 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R6473 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6474,75 | ERJ6ENF4872 | M48.7KOHM, 1/10W | 2 | |
| R6476 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R6477,78 | ERJ6ENF1023 | M10.2KOHM, 1/10W | 2 | |
| R6479 | ERJ6ENF2741 | M2.74KOHM, 1/10W | 1 | |
| R6480 | ERJ6ENF6811 | M6.81KOHM, 1/10W | 1 | |
| R6481,82 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 2 | |
| R6483 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R6484 | ERJ6GEYJ474 | M 470KOHM,J,1/10W | 1 | |
| R6485,86 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 2 | |
| R6487,88 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 2 | |

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|---|---|---|---|---|
| R6489 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6490 | EVMEASA00B14 | CONTROL 10KOHMB 0.3W | 1 | |
| R6491 | ERJ6GEYJ182 | M 1.8KOHM,J,1/10W | 1 | |
| R6492 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R6493 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |
| R6494 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 1 | |
| R6495 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6496,97 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 2 | |
| R6500 | ERX3FJS2R7D | M 2.7 OHM, J, 3W | 1 | |
| R6501,02 | ERG1FJS220D | M 22 OHM, J, 1W | 2 | |
| R6503 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |
| R6504 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R6505 | ERJ6ENF4531 | M4.53KOHM, 1/10W | 1 | |
| R6506-08 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 3 | |
| R6509,10 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 2 | |
| R6511,12 | ERX3FJS2R7D | M 2.7 OHM, J, 3W | 2 | |
| R6513 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 1 | |
| R6514 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R6515 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R6516 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 1 | |
| R6517 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R6518,19 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 2 | |
| R6520 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 1 | |
| R6521 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R6522 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6523 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R6524 | EVMEASA00B14 | CONTROL 10KOHMB 0.3W | 1 | |
| R6525-34 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 10 | |
| R6535-42 | ERJ6GEYJ5R6 | M 5.6 OHM,J,1/10W | 8 | |
| R6543,44 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 2 | |
| R6545,46 | ERJ6GEYJ154 | M 150KOHM,J,1/10W | 2 | |
| R6547 | ERJ6GEYJ392 | M 3.9KOHM,J,1/10W | 1 | |
| R6548 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |
| R6549-51 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 3 | |
| R6552 | ERG1FJS332D | M 3.3KOHM, J, 1W | 1 | |
| R6553 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R6554 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 1 | |
| R6555 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R6556 | EVMEASA00B14 | CONTROL 10KOHMB 0.3W | 1 | |

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|---|---|---|---|---|
| R6557 | ERJ6GEYJ392 | M 3.9KOHM,J,1/10W | 1 | |
| R6558 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R6559-61 | ERJ6GEYJ5R6 | M 5.6 OHM,J,1/10W | 3 | |
| R6562,63 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 2 | |
| R6564,65 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R6566,67 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 2 | |
| R6568,69 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 2 | |
| R6570-74 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 5 | |
| R6575,76 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R6577 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R6578 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6579,80 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 2 | |
| R6581,82 | ERJ6GEYJ272 | M 2.7KOHM,J,1/10W | 2 | |
| R6583-86 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R6587-90 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 4 | |
| R6591 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R6592-94 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 3 | |
| R6595-99 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 5 | |
| R6600 | ERG2FJS104D | M 100KOHM, J, 2W | 1 | |
| R6601-03 | ERX2FJSR22D | M0.22 OHM, J, 2W | 3 | |
| R6604,05 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 2 | |
| R6607-09 | ERX2FJS1R5D | M 1.5 OHM, J, 2W | 3 | |
| R6610 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R6611-22 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 12 | |
| R6623-38 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 16 | |
| R6639,40 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 2 | |
| R6641,42 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R6643,44 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 2 | |
| R6645,46 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R6647-55 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 9 | |
| R6656 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6657-65 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 9 | |
| R6666 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6667-70 | ERJ6GEYJ470 | M 47 OHM,J,1/10W | 4 | |
| R6671 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R6672 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6673-78 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 6 | |
| R6679-92 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 14 | |
| R6693 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R6694 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R6695 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6696 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R6702-04 | ERX2FJSR22D | M0.22 OHM, J, 2W | 3 | |
| R6706-08 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 3 | |
| R6709 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 1 | |
| R6710-12 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 3 | |
| R6713,14 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R6715 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 1 | |
| R6716 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6717-22 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 6 | |
| R6723,24 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R6725 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 1 | |
| R6726 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6727-32 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 6 | |
| R6734,35 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 2 | |
| R6737,38 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R6740-51 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 12 | |
| R6756,57 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 2 | |
| R6758 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6760 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6761-72 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 12 | |
| R6775-78 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 4 | |
| R6781-85 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 5 | |
| R6803-05 | ERX2FJS1R5D | M 1.5 OHM, J, 2W | 3 | |
| R6806-09 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 4 | |
| R6810-13 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 4 | |
| R6814 | ERG2FJS104D | M 100KOHM, J, 2W | 1 | |
| R6815-18 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 4 | |
| R6819 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6820 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 1 | |
| R6821,22 | ERJ12YJ470 | M 47 OHM, J,1/2W | 2 | |
| R6823,24 | ERJ14YJ223H | M 22KOHM, J,1/4W | 2 | |
| R6825 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 1 | |
| R6826,27 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 2 | |
| R6828 | ERJ6GEYJ152 | M 1.5KOHM,J,1/10W | 1 | |
| R6829 | EVMEASA00B14 | CONTROL 10KOHMB 0.3W | 1 | |
| R6830 | ERJ14YJ223H | M 22KOHM, J,1/4W | 1 | |
| R6831 | ERJ6GEYJ224 | M 220KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R6832 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R6848 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R6850,51 | ERJ6ENF4872 | M48.7KOHM, 1/10W | 2 | |
| R6852 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R6853,54 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 2 | |
| R6855 | ERJ6GEYJ474 | M 470KOHM,J,1/10W | 1 | |
| R6856 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R6857,58 | ERJ6ENF1023 | M10.2KOHM, 1/10W | 2 | |
| R6859 | ERJ6ENF7681 | M7.68KOHM, 1/10W | 1 | |
| R6860 | ERJ6ENF4871 | M4.87KOHM, 1/10W | 1 | |
| R6861,62 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R6863 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R7101-04 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7105 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R7131-34 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7141-44 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7148-50 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 3 | |
| R7161-64 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7165 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R7205 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R7206-09 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7236-39 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7251-54 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7265-68 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7273 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R7275-78 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 4 | |
| R7301-04 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7305 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R7311,12 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R7313 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R7314 | ERJ6GEYJ220 | M 22 OHM,J,1/10W | 1 | |
| R7315 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R7316 | ERJ6GEYJ5R6 | M 5.6 OHM,J,1/10W | 1 | |
| R7317 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R7320,21 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R7322,23 | ERJ6GEYJ220 | M 22 OHM,J,1/10W | 2 | |
| R7324,25 | ERJ6GEYJ5R6 | M 5.6 OHM,J,1/10W | 2 | |
| R7327 | ERJ6ENF7682 | M76.8KOHM, 1/10W | 1 | |
| R7328 | ERJ6ENF7681 | M7.68KOHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R7329 | ERJ6ENF4871 | M4.87KOHM, 1/10W | 1 | |
| R7330 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R7331 | ERJ6GEYJ474 | M 470KOHM,J,1/10W | 1 | |
| R7332,33 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 2 | |
| R7335 | ERJ6ENF3832 | M38.3KOHM, 1/10W | 1 | |
| R7336 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R7337 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 1 | |
| R7338 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R7339 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 1 | |
| R7340 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R7401-04 | ERJ6GEYJ471 | M 470 OHM,J,1/10W | 4 | |
| R7405 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R7411,12 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R7413 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R7414 | ERJ6GEYJ220 | M 22 OHM,J,1/10W | 1 | |
| R7415 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R7416 | ERJ6GEYJ5R6 | M 5.6 OHM,J,1/10W | 1 | |
| R7417 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R7420,21 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 2 | |
| R7422,23 | ERJ6GEYJ220 | M 22 OHM,J,1/10W | 2 | |
| R7424,25 | ERJ6GEYJ5R6 | M 5.6 OHM,J,1/10W | 2 | |
| R7427 | ERJ6ENF7682 | M76.8KOHM, 1/10W | 1 | |
| R7428 | ERJ6ENF7681 | M7.68KOHM, 1/10W | 1 | |
| R7429 | ERJ6ENF4871 | M4.87KOHM, 1/10W | 1 | |
| R7430 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R7431 | ERJ6GEYJ474 | M 470KOHM,J,1/10W | 1 | |
| R7432,33 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 2 | |
| R7435 | ERJ6ENF3832 | M38.3KOHM, 1/10W | 1 | |
| R7436 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R7437 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 1 | |
| R7438 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R7439 | ERJ6GEYJ100 | M 10 OHM,J,1/10W | 1 | |
| R7440 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R8002 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R8003 | ERJ6GEYJ153 | M 15KOHM,J,1/10W | 1 | |
| R8004 | ERJ6GEYJ271 | M 270 OHM,J,1/10W | 1 | |
| R8006-08 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 3 | |
| R8009 | ERJ6GEYJ332 | M 3.3KOHM,J,1/10W | 1 | |
| R8010 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 1 | |

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|---|---|---|---|---|
| R8012 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R8013 | ERJ6GEYJ104 | M 100KOHM,J,1/10W | 1 | |
| R8015 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R8017-19 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 3 | |
| R8021,22 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 2 | |
| R8023,24 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 2 | |
| R8025 | ERJ6GEYJ183 | M 18KOHM,J,1/10W | 1 | |
| R8026 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R8027 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R8028-30 | ERJ6GEYJ222 | M 2.2KOHM,J,1/10W | 3 | |
| R8031 | ERJ6GEYJ563 | M 56KOHM,J,1/10W | 1 | |
| R8032 | ERJ6GEYJ223 | M 22KOHM,J,1/10W | 1 | |
| R8033 | ERJ6GEYJ330 | M 33 OHM,J,1/10W | 1 | |
| R8035 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R8036 | EXB38V330J | RESISTOR ARRAY | 1 | |
| R8037 | ERJ6GEYJ271 | M 270 OHM,J,1/10W | 1 | |
| R8900-04 | TAJAAH0101JV | M 100 OHM,J,1/16W | 5 | D0GB101JA006 |
| R8905-07 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 3 | |
| R8908 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R8909 | ERJ3GEYJ563 | M 56KOHM,J,1/16W | 1 | |
| R8910 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R8911 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R8912 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R8913 | ERJ3GEYJ681 | M 680 OHM,J,1/16W | 1 | |
| R8914 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R8915 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R8916 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R8917 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R8918 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R8919 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R8920 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R8921 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R8923,24 | TAJAAH0101JV | M 100 OHM,J,1/16W | 2 | D0GB101JA006 |
| R8931-74 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 44 | |
| R8976 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R8978,79 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R9001-06 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 6 | |
| R9007-11 | ERJ6ENF1500 | M 150 OHM, 1/10W | 5 | |
| R9016 | ERJ6ENF1500 | M 150 OHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R9017 | ERJ6ENF5111 | M5.11KOHM, 1/10W | 1 | |
| R9018 | ERJ6ENF1801 | M 1.8KOHM, 1/10W | 1 | |
| R9019 | ERJ6ENF5111 | M5.11KOHM, 1/10W | 1 | |
| R9020 | ERJ6ENF1801 | M 1.8KOHM, 1/10W | 1 | |
| R9021 | ERJ6ENF5111 | M5.11KOHM, 1/10W | 1 | |
| R9022 | ERJ6ENF1801 | M 1.8KOHM, 1/10W | 1 | |
| R9023 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9024 | ERJ6ENF7500 | M 750 OHM, 1/10W | 1 | |
| R9025 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9026 | ERJ6ENF7500 | M 750 OHM, 1/10W | 1 | |
| R9027 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9028 | ERJ6ENF7500 | M 750 OHM, 1/10W | 1 | |
| R9033 | ERJ6ENF8200 | M 820 OHM, 1/10W | 1 | |
| R9034 | ERJ6ENF2701 | M 2.7KOHM, 1/10W | 1 | |
| R9035 | ERJ6ENF8200 | M 820 OHM, 1/10W | 1 | |
| R9036 | ERJ6ENF2701 | M 2.7KOHM, 1/10W | 1 | |
| R9037 | ERJ6ENF8200 | M 820 OHM, 1/10W | 1 | |
| R9038 | ERJ6ENF2701 | M 2.7KOHM, 1/10W | 1 | |
| R9039-41 | ERJ3GEYJ181 | M 180 OHM,J,1/16W | 3 | |
| R9043-45 | ERJ3GEYJ181 | M 180 OHM,J,1/16W | 3 | |
| R9047-49 | ERJ3GEYJ181 | M 180 OHM,J,1/16W | 3 | |
| R9050 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9051 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9054-56 | ERJ6ENF1800 | M 180 OHM, 1/10W | 3 | |
| R9058-60 | ERJ6ENF1800 | M 180 OHM, 1/10W | 3 | |
| R9062-64 | ERJ6ENF1800 | M 180 OHM, 1/10W | 3 | |
| R9066-68 | ERJ6ENF1801 | M 1.8KOHM, 1/10W | 3 | |
| R9070-72 | ERJ6ENF1801 | M 1.8KOHM, 1/10W | 3 | |
| R9074-76 | ERJ6ENF1801 | M 1.8KOHM, 1/10W | 3 | |
| R9081-83 | ERJ6ENF1800 | M 180 OHM, 1/10W | 3 | |
| R9085-87 | ERJ6ENF1800 | M 180 OHM, 1/10W | 3 | |
| R9089-91 | ERJ6ENF1800 | M 180 OHM, 1/10W | 3 | |
| R9093-04 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 12 | |
| R9106 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9109 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R9111 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R9113 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R9114 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9116,17 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |

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|---|---|---|---|---|
| R9118 | TAJAAH0680JV | M 68 OHM,J,1/16W | 1 | D0GB680JA006 |
| R9119 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9120 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9122-25 | TAJAAH0101JV | M 100 OHM,J,1/16W | 4 | D0GB101JA006 |
| R9126-31 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 6 | |
| R9132,33 | TAJAAH0101JV | M 100 OHM,J,1/16W | 2 | D0GB101JA006 |
| R9134 | TAJAAH0680JV | M 68 OHM,J,1/16W | 1 | D0GB680JA006 |
| R9135,36 | TAJAAH0101JV | M 100 OHM,J,1/16W | 2 | D0GB101JA006 |
| R9137,38 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 2 | |
| R9139 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9140 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 1 | |
| R9141-43 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 3 | |
| R9144 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9145 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 1 | |
| R9146 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9147 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R9148,49 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 2 | |
| R9150 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9152 | ERJ6ENF6201 | M 6.2KOHM, 1/10W | 1 | |
| R9153 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9156 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 1 | |
| R9157,58 | TAJAAH0101JV | M 100 OHM,J,1/16W | 2 | D0GB101JA006 |
| R9159-61 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 3 | |
| R9162 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9163 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9165,66 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 2 | |
| R9167,68 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9169 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R9170 | ERJ3GEYJ223 | M 22KOHM,J,1/16W | 1 | |
| R9171,72 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 2 | |
| R9173 | ERJ3GEYJ560 | M 56 OHM,J,1/16W | 1 | |
| R9174 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9175 | ERJ3GEYJ560 | M 56 OHM,J,1/16W | 1 | |
| R9176 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9177 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 1 | |
| R9178 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9179,80 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 2 | |
| R9181 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9182-84 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 3 | |

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|---|---|---|---|---|
| R9185 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9186 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9188 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9189 | ERJ3GEYJ223 | M 22KOHM,J,1/16W | 1 | |
| R9190 | ERJ3GEYJ560 | M 56 OHM,J,1/16W | 1 | |
| R9191,92 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 2 | |
| R9194 | ERJ3GEYJ273 | M 27KOHM,J,1/16W | 1 | |
| R9195 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9196-98 | ERJ3GEYJ560 | M 56 OHM,J,1/16W | 3 | |
| R9203 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9204 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9205 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R9206 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9207,08 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9209 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R9210 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9211 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R9212 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9213,14 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 2 | |
| R9216,17 | ERJ6ENF5100 | M 510 OHM, 1/10W | 2 | |
| R9218 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9219 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9220,21 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R9222 | ERJ6ENF5100 | M 510 OHM, 1/10W | 1 | |
| R9223 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9224,25 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9226 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 1 | |
| R9227 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R9229,30 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R9231 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9232,33 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R9234 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9235,36 | TAJAAH0101JV | M 100 OHM,J,1/16W | 2 | D0GB101JA006 |
| R9238 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9240 | ERJ6ENF2550 | M 255 OHM, 1/10W | 1 | |
| R9241 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9242 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9243 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9244 | ERJ6ENF2550 | M 255 OHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R9246 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9247 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9249 | ERJ6ENF2550 | M 255 OHM, 1/10W | 1 | |
| R9252 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9253 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R9254 | ERJ3GEYJ560 | M 56 OHM,J,1/16W | 1 | |
| R9257 | ERJ3GEYJ560 | M 56 OHM,J,1/16W | 1 | |
| R9258 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R9260 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 1 | |
| R9261 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9262 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9267 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9268 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9270 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R9272 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9276,77 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9278 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R9279 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R9280 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 1 | |
| R9282 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9286 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9289 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9290 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R9291 | ERJ3GEYJ822 | M 8.2KOHM,J,1/16W | 1 | |
| R9292 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9293 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9294 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9295 | ERJ6ENF1651 | M1.65KOHM, 1/10W | 1 | |
| R9296 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9297 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9298 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9299 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R9300 | ERJ3GEYJ474 | M 470KOHM,J,1/16W | 1 | |
| R9301 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9302 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9303 | ERJ3GEYJ822 | M 8.2KOHM,J,1/16W | 1 | |
| R9304,05 | TAJAAH0470JV | M 47 OHM,J,1/16W | 2 | D0GB470JA006 |
| R9306 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9308-11 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 4 | |

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|---|---|---|---|---|
| R9312 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R9313 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9316 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9317 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9318 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9319 | ERJ3GEYJ473 | M 47KOHM,J,1/16W | 1 | |
| R9320 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9321 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 1 | |
| R9322 | ERJ3GEYJ473 | M 47KOHM,J,1/16W | 1 | |
| R9323 | ERJ3GEYJ105 | M 1MOHM,J,1/16W | 1 | |
| R9324 | ERJ3GEYJ473 | M 47KOHM,J,1/16W | 1 | |
| R9325 | ERJ3GEYJ393 | M 39KOHM,J,1/16W | 1 | |
| R9326 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9327 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 1 | |
| R9328 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9329,30 | ERJ3GEYJ223 | M 22KOHM,J,1/16W | 2 | |
| R9331 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9332 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9335 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9336 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9337 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9338-65 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 28 | |
| R9366-69 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 4 | |
| R9370,71 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 2 | |
| R9372,73 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9374,75 | ERJ3GEYJ560 | M 56 OHM,J,1/16W | 2 | |
| R9376,77 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 2 | |
| R9378-81 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9386-89 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9392,93 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9400,01 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9402,03 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R9404 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9406,07 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9410,11 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9412-14 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 3 | |
| R9415 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9416 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9418-23 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 6 | |

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| R9424 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R9425,26 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9427 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9428,29 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9430,31 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 2 | D0GB101JA002 |
| R9432,33 | ERJ3GEYJ273 | M 27KOHM,J,1/16W | 2 | |
| R9434 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9435 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9436-38 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 3 | |
| R9441 | ERJ3GEYJ473 | M 47KOHM,J,1/16W | 1 | |
| R9442 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9443 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 1 | |
| R9444-46 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 3 | |
| R9448,49 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 2 | |
| R9451 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9452 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9453,54 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 2 | |
| R9455 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9456,57 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 2 | |
| R9458,59 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9460,61 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 2 | |
| R9462 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9464 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9465 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9467 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 1 | |
| R9468 | ERJ3GEYJ681 | M 680 OHM,J,1/16W | 1 | |
| R9469 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 1 | |
| R9472 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9473 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9475 | ERJ3GEYJ225 | M2200KOHM,J,1/16W | 1 | |
| R9479-81 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 3 | |
| R9483 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9484,85 | ERJ3GEYJ562 | M 5.6KOHM,J,1/16W | 2 | |
| R9495-99 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 5 | |
| R9501 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9502 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9504 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9507 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9510 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |

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|---|---|---|---|---|
| R9511 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R9513 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R9514,15 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9517,18 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9520 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9526-29 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9530,31 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 2 | |
| R9532-35 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9536 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9540 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9541 | ERJ3GEYJ684 | M 680KOHM,J,1/16W | 1 | D0GB684JA002 |
| R9542,43 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 2 | |
| R9544 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9545 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 1 | |
| R9547 | ERJ3GEYJ100 | M 10 OHM,J,1/16W | 1 | |
| R9548,49 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 2 | |
| R9550,51 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R9552,53 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9554,55 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9556-59 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 4 | |
| R9560 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9561 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9562 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9563 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9564 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9565 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9566 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9567,68 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 2 | |
| R9569-74 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 6 | |
| R9575,76 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 2 | |
| R9577,78 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 2 | |
| R9579 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9582 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9584,85 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9587-07 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 21 | |
| R9609 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R9612 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9613-17 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 5 | |
| R9618-21 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 4 | |

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| R9624-27 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9630-33 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9634 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9635-50 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 16 | |
| R9651 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9652,53 | EXB38V151J | RESISTOR ARRAY | 2 | |
| R9656-63 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 8 | |
| R9664 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9665-72 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 8 | |
| R9674,75 | TAJAAH0101JV | M 100 OHM,J,1/16W | 2 | D0GB101JA006 |
| R9676-84 | EXB38V680J | RESISTOR ARRAY | 9 | |
| R9685 | EXB38V151J | RESISTOR ARRAY | 1 | |
| R9686,87 | EXB38V680J | RESISTOR ARRAY | 2 | |
| R9688 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9689,90 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 2 | |
| R9691-95 | TAJAAH0470JV | M 47 OHM,J,1/16W | 5 | D0GB470JA006 |
| R9696,97 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 2 | |
| R9698 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9699 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9701 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9703 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9704-21 | EXB38V680J | RESISTOR ARRAY | 18 | |
| R9722 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9723,24 | TAJAAH0470JV | M 47 OHM,J,1/16W | 2 | D0GB470JA006 |
| R9725 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9726 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9727,28 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 2 | |
| R9729 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9730 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9731,32 | TAJAAH0470JV | M 47 OHM,J,1/16W | 2 | D0GB470JA006 |
| R9733 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9734 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9736 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R9739 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9745-48 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 4 | |
| R9751-54 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9757-60 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9761 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9762-77 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 16 | |

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|---|---|---|---|---|
| R9778 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9779,80 | EXB38V151J | RESISTOR ARRAY | 2 | |
| R9781-96 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 16 | |
| R9797 | EXB38V680J | RESISTOR ARRAY | 1 | |
| R9798,99 | TAJAAH0101JV | M 100 OHM,J,1/16W | 2 | D0GB101JA006 |
| R9800-16 | EXB38V680J | RESISTOR ARRAY | 17 | |
| R9817 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9818 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9819 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9820 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9821-23 | TAJAAH0470JV | M 47 OHM,J,1/16W | 3 | D0GB470JA006 |
| R9824 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9825 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9826 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9827,28 | TAJAAH0470JV | M 47 OHM,J,1/16W | 2 | D0GB470JA006 |
| R9830 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9831 | EXB38V680J | RESISTOR ARRAY | 1 | |
| R9832 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9834-50 | EXB38V680J | RESISTOR ARRAY | 17 | |
| R9852-60 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 9 | |
| R9861,62 | TAJAAH0470JV | M 47 OHM,J,1/16W | 2 | D0GB470JA006 |
| R9863 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R9864 | TAJAAH0470JV | M 47 OHM,J,1/16W | 1 | D0GB470JA006 |
| R9865 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9867 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9870 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9872 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9881,82 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9885-88 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 4 | |
| R9890,91 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R9892,93 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 2 | |
| R9894 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9898 | ERJ3GEYJ271 | M 270 OHM,J,1/16W | 1 | |
| R9899 | ERJ6ENF2402 | M 24KOHM, 1/10W | 1 | |
| R9900 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R9901 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R9909 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R9917 | ERJ3GEYJ473 | M 47KOHM,J,1/16W | 1 | |
| R9918,19 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |

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|---|---|---|---|---|
| R9920 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9921 | ERJ3GEYJ561 | M 560 OHM,J,1/16W | 1 | |
| R9937 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9944-46 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 3 | |
| R9947 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R9948 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R9951 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R9955 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9956 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9962-65 | EXB38V103J | RESISTOR ARRAY | 4 | |
| R9966,67 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R9969 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R9981 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9982-84 | TAJAAH0680JV | M 68 OHM,J,1/16W | 3 | D0GB680JA006 |
| R9985-87 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 3 | |
| R9990 | TAJAAH0101JV | M 100 OHM,J,1/16W | 1 | D0GB101JA006 |
| R9991-93 | TAJAAH0680JV | M 68 OHM,J,1/16W | 3 | D0GB680JA006 |
| R9995 | ERD25V0R00 | C 0 OHM, 1/4W | 1 | |
| | | | | |
| RJ100 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| | | | | |
| RL400 | K6B1AGA00086 | RELAY | 1 | ⚠ |
| RL401 | TSEH0025 | RELAY | 1 | K6B2AGA00020 ⚠ |
| | | | | |
| RM001 | PNA4601M05TV | REMOCO RECEIVER | 1 | |
| | | | | |
| RTL | TNPA1914 | CIRCUIT BOARD(C1) | 1 | ⚠ |
| RTL | TNPA1915 | CIRCUIT BOARD(C2) | 1 | ⚠ |
| RTL | TNPA1916 | CIRCUIT BOARD(C3) | 1 | ⚠ |
| RTL | TNPA1917 | CIRCUIT BOARD(C4) | 1 | ⚠ |
| RTL | TNPA1918 | CIRCUIT BOARD(C5) | 1 | ⚠ |
| RTL | TNPA1919 | CIRCUIT BOARD(C6) | 1 | ⚠ |
| RTL | TNPA1920 | CIRCUIT BOARD(SU) | 1 | ⚠ |
| RTL | TNPA1921 | CIRCUIT BOARD(SD) | 1 | ⚠ |
| RTL | TNPA1993 | CIRCUIT BOARD(C7) | 2 | ⚠ |
| RTL | TNPA2277 | CIRCUIT BOARD(C8) | 2 | ⚠ |

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|---|---|---|---|---|
| RTL | TNPA1756AB | CIRCUIT BOARD(H3) | 1 | ⚠ |
| RTL | TNPA2244N | CIRCUIT BOARD(J) | 1 | ⚠ |
| RTL | TZTNP01KESE | CIRCUIT BOARD(D) | 1 | ⚠ |
| RTL | TNPA2373 | CIRCUIT BOARD(T12) | 1 | ⚠ |
| RTL | TXN/F10HAS | CIRCUIT BOARD(F) | 1 | ⚠ |
| RTL | TZTNP02KESE | CIRCUIT BOARD(HX) | 1 | ⚠ |
| RTL | TXNP11KESE | CIRCUIT BOARDiP1j | 1 | ⚠ |
| RTL | TNPA1906AC | CIRCUIT BOARDiP9j | 2 | ⚠ |
| RTL | TNPA1907AC | CIRCUIT BOARDiP3j | 1 | ⚠ |
| RTL | TNPA1909AC | CIRCUIT BOARDiP5j | 1 | ⚠ |
| RTL | TNPA1910AC | CIRCUIT BOARDiP6j | 1 | ⚠ |
| RTL | TNPA1911AC | CIRCUIT BOARDiP7j | 1 | ⚠ |
| RTL | TNPA1912AC | CIRCUIT BOARDiP8j | 1 | ⚠ |
| RTL | TNPA1908 | CIRCUIT BOARD (P4) | 1 | ⚠ |
| RTL | TNPA1922 | CIRCUIT BOARD (SC) | 1 | ⚠ |
| RTL | TNPA1923 | CIRCUIT BOARD (SS) | 1 | ⚠ |
| RTL | TNPA1924 | CIRCUIT BOARD (SS2) | 1 | ⚠ |
| RTL | TNPA1925 | CIRCUIT BOARD (SS3) | 1 | ⚠ |
| RTL | TNPA1784 | CIRCUIT BOARD (S1) | 1 | ⚠ |
| RTL | TNPA2282AB | CIRCUIT BOARD (V1) | 1 | ⚠ |
| | | | | |
| S061 | TSE4GD0001 | POWER SWITCH | 1 | K0F162B00002 |
| S701 | ESD11H220 | SWITCH | 1 | |
| S1554-56 | EVQPBD05R | SWITCH | 3 | |
| | | | | |
| SC1 | TJS3A9920 | 12P CONNECTOR | 1 | K1KA12A00156 |
| SC2 | K1KA10A00266 | 10P CONNECTOR | 1 | |
| SC3 | K1KA11A00078 | 11P CONNECTOR | 1 | |
| SC4 | TJS3A9680 | 7P CONNECTOR | 1 | K1KA07A00095 |
| SC41-44 | TJSF41260 | 60P CONNECTOR | 4 | K1KB60B00007 |
| | | | | |
| SD1-D4 | K1KAA0A00089 | CONNECTOR | 4 | |
| | | | | |
| SS1 | TJS3A9900 | 10P CONNECTOR | 1 | K1KA10A00218 |
| SS8 | TJS1A8790 | 3P CONNECTOR | 1 | K1KA03A00213 |

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|---|---|---|---|---|
| SS12 | TJS1A8870 | 11P CONNECTOR | 1 | K1KA11A00073 |
| SS15,16 | TJS5A8630 | 7P CONNECTOR | 2 | K1KA07A00092 |
| SS21 | TJS5A8620 | 7P CONNECTOR | 1 | K1KB07A00030 |
| SS27 | TJS1A8830 | CONNECTOR | 1 | K1KA07A00056 |
| SS31 | TJS5A8620 | 7P CONNECTOR | 1 | K1KB07A00030 |
| SS34 | TJS1A8790 | 3P CONNECTOR | 1 | K1KA03A00213 |
| SS41-48 | TJSF41013 | 13P CONNECTOR | 8 | K1MN13B00020 |
| SS72 | TJS1A8830 | CONNECTOR | 1 | K1KA07A00056 |
| | | | | |
| SU1-U4 | K1KAA0A00089 | CONNECTOR | 4 | |
| | | | | |
| T6 | TJS1A8840 | 8P CONNECTOR | 1 | K1KA08A00221 |
| T13 | K1KA07A00056 | 7P CONNECTOR | 1 | |
| T14 | K1KA10A00259 | 10P CONNECTOR | 1 | |
| T17 | TJS1A8870 | 11P CONNECTOR | 1 | K1KA11A00073 |
| T400 | G4D5A0000008 | SWITCHING TRANSFORMER | 1 | ⚠ |
| T401 | G4D5A0000009 | SWITCHING TRANSFORMER | 1 | ⚠ |
| T402 | ETS25AD186AG | SWITCHING TRANS | 1 | ⚠ |
| T404,05 | ETH19K191AM | H DRIVE TRANS | 2 | |
| T921 | G4D3A0000039 | SWITCHING TRANSFORMER | 1 | ⚠ |
| | | | | |
| V34 | K1KA08B00005 | 8P CONNECTOR | 1 | |
| | | | | |
| X1001 | TSSA120 | CRYSTAL | 1 | H0J327200038 |
| X1002 | H0J921400003 | CRYSTAL | 1 | |
| X9001 | TSSA081 | CRYSTAL | 1 | H0J245500024 |
| X9002 | TSS9038-B | CRYSTAL | 1 | H0J200500016 |
| X9004 | H1A8405B0001 | CRYSTAL | 1 | |
| X9500 | H1A8405B0001 | CRYSTAL | 1 | |

TOP PREVIOUS NEXT

# 16.3 Option TY-42TM4Y Replacement Parts List

TOP PREVIOUS NEXT

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| C3301,02 | ECJ2XB1E104K | C 0.1UF, K, 25V | 2 | |
| C3303,04 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C3305 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3306,07 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3309 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3310 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3311 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3312,13 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C3314 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3351,52 | ECJ3XB0J106M | C 10UF, M,6.3V | 2 | |
| C3353-60 | ECJ2VF1C105Z | C 1UF, Z, 16V | 8 | |
| C3361 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3362 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3363 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3364 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3365 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3501 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3502 | EEVHP1E220 | E 22UF, 25V | 1 | |
| C3503,04 | EEVHP1E100 | E 10UF, 25V | 2 | |
| C3505 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3506 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C3507 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3509-12 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C3700 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3701 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3702 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3703 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3704 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3706 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3708 | EEVHB0G221 | E 220UF, 4V | 1 | |

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|---|---|---|---|---|
| C3709 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3710-13 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C3714 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C3715 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C3716 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C3717,18 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C3723 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3726 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3727,28 | ECJ3XB0J106M | C 10UF, M,6.3V | 2 | |
| C3729 | ECJ2XB1H471K | C 470PF, K, 50V | 1 | |
| C3801 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3802 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3803 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3804 | ECJ1XC1H470J | C 47PF, J, 50V | 1 | |
| C3805 | ECJ1XC1H220J | C 22PF, J, 50V | 1 | |
| C3806 | ECJ1XC1H680J | C 68PF, J, 50V | 1 | ECUX1H680JCV |
| C3808 | EEVHP1E220 | E 22UF, 25V | 1 | |
| C3809 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3810 | EEVHB0J220 | E 22UF 6.3V | 1 | |
| C3812 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3815 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3816 | EEVHP1E100 | E 10UF, 25V | 1 | |
| C3817 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3818 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3819 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3820 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3821 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3823 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C3824,25 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3826 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3828,29 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3830,31 | ECJ1XC1H180J | C 18PF, J, 50V | 2 | ECUX1H180JCV |
| C3832-34 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3835 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3836-38 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3840 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3841 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3842 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3843 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |

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|---|---|---|---|---|
| C3844 | EEVHB0J152P | E 1000UF, 6.3V | 1 | |
| C3845,46 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3848-50 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3852,53 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3854 | ECJ1VC1H080C | C 0.8PF, J, 50V | 1 | |
| C3855-57 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3858 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C3859,60 | EEVHB0J152P | E 1000UF, 6.3V | 2 | |
| C3861 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3862 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3863 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3864 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3865 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3866 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3867 | ECJ1VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3868 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3869 | ECJ1XC1H330J | C 33PF, J, 50V | 1 | |
| C3870,71 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3872 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3873 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3874 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3875 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3876 | ECJ1VB1H102K | C 1000PF, K, 50V | 1 | |
| C3877 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3878-83 | ECJ2VF1C105Z | C 1UF, Z, 16V | 6 | |
| C3884 | ECJ1VB1H153K | C 0.15UF, K, 50V | 1 | |
| C3885 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3886 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3887 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3888 | ECJ1XC1H101J | C 100PF, J, 50V | 1 | |
| C3889 | ECJ1VB1H472K | C 4700PF, K, 50V | 1 | |
| C3890 | ECJ3XB0J106M | C 10UF, M,6.3V | 1 | |
| C3891,92 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3893 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3894 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C3896 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3897 | ECJ1XC1H680J | C 68PF, J, 50V | 1 | ECUX1H680JCV |
| C3898 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3899 | ECJ1XC1H330J | C 33PF, J, 50V | 1 | |

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|---|---|---|---|---|
| D3351,52 | MA153 | DIODE | 2 | MA3X153 |
| | | | | |
| H1 | K1KB50B00030 | CONNECTOR | 1 | |
| H2 | K1KB40B00015 | CONNECTOR | 1 | |
| | | | | |
| IC3301 | TC4W53F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAR000225 |
| IC3302 | AD8055ART | IC | 1 | C0ABGB000001 |
| IC3303 | TC4W53F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAR000225 |
| IC3501 | JLC1562BF | MOS IC (MICON LSI) | 1 | C0JBAZ001265 |
| IC3699 | TVRJ593 | ROM IC (EEPROM 16KBIT) | 1 | C3EAGC000012 |
| IC3801 | C0CBABB00029 | IC | 1 | |
| IC3802 | C0EBE0000066 | IC | 1 | |
| IC3803 | TVSA0367 | IC | 1 | C3ABMG000064 |
| IC3804 | C1AB00001494 | OR C1AB00001468 | 1 | |
| IC3805,06 | C0CBABB00029 | IC | 2 | |
| IC3809 | TC74LCX244F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAZ001234 |
| | | | | |
| JK3300 | K2HA204B0097 | JACK | 1 | |
| JK3301 | K1CB106B0027 | CONNECTOR | 1 | |
| JK3302 | K1QBB2AB0005 | CONNECTOR | 1 | |
| JK3303 | K2HA204B0097 | JACK | 1 | |
| JK3304 | K1QBB5AB0003 | CONNECTOR | 1 | |
| | | | | |
| JS1-24 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 24 | |
| JS28-32 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 5 | |
| JS35 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| | | | | |
| L3301 | TLK20LFA223M | EMI FILTER | 1 | J0HABB000003 |
| L3302,03 | TLK20LFA224M | EMI FILTER | 2 | J0HABB000004 |
| L3304,05 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3306,07 | ELJPA100KB | CHIP INDUCTOR | 2 | |
| L3351,52 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3353-55 | TLK20LFA224M | EMI FILTER | 3 | J0HABB000004 |
| L3356,57 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3358,59 | ELJPA100KB | CHIP INDUCTOR | 2 | |
| L3501 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| L3801,02 | TLK20LFA224M | EMI FILTER | 2 | J0HABB000004 |
| L3803 | G1C100KA0008 | INDUCTOR COIL | 1 | |

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|---|---|---|---|---|
| L3804 | ERJ8GEY0R00 | M 0 OHM, 1/8W | 1 | |
| L3806 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| L3807 | TALC168T2R2K | CHIP INDUCTOR COIL | 1 | |
| L3808 | G1C100KA0008 | INDUCTOR COIL | 1 | |
| L3809 | TALC325T4R7M | CHIP INDUCTOR COIL | 1 | |
| L3810,11 | G1C100KA0008 | INDUCTOR COIL | 2 | |
| L3813 | TALC168T4R7K | CHIP INDUCTOR COIL | 1 | |
| L3814-16 | G1C100KA0008 | INDUCTOR COIL | 3 | |
| L3817-19 | TLK20LFA224M | EMI FILTER | 3 | J0HABB000004 |
| L3820,21 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3822-25 | ELKE103FA | NOISE FILTER | 4 | |
| L3826,27 | TLK20LFA224M | EMI FILTER | 2 | J0HABB000004 |
| L3828,29 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3830 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| | | | | |
| LC3805 | ELB4B578 | LC FILTER | 1 | |
| | | | | |
| Q3301-09 | 2SD601A | TRANSISTOR | 9 | 2SD0601A |
| Q3351,52 | 2SD601A | TRANSISTOR | 2 | 2SD0601A |
| Q3353 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3354-58 | 2SD601A | TRANSISTOR | 5 | 2SD0601A |
| Q3359 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3501-03 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| Q3507-09 | 2SB709A | TRANSISTOR | 3 | 2SB0709A |
| Q3801,02 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q3803,04 | 2SD601A | TRANSISTOR | 2 | 2SD0601A |
| Q3805-07 | 2SB709A | TRANSISTOR | 3 | 2SB0709A |
| Q3808 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q3809 | 2SK198R | FET | 1 | 2SK01980R |
| Q3810 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q3812,13 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q3815 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3817 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| | | | | |
| R3301,02 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 2 | |
| R3303 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3304,05 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 2 | |
| R3306 | ERJ6GEYJ184 | M 180KOHM,J,1/10W | 1 | |
| R3307 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 1 | |

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|---|---|---|---|---|
| R3308 | ERJ6GEYJ184 | M 180KOHM,J,1/10W | 1 | |
| R3309 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3310 | ERJ3GEYJ153 | M 15KOHM,J,1/16W | 1 | |
| R3311 | ERJ3GEYJ333 | M 33KOHM,J,1/16W | 1 | |
| R3312 | ERJ3GEYJ123 | M 12KOHM,J,1/16W | 1 | |
| R3313 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3314 | ERJ3GEYJ123 | M 12KOHM,J,1/16W | 1 | |
| R3315 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3316-18 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3319-21 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 3 | |
| R3322 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3323 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R3324 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3325-27 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3328-31 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 4 | |
| R3332,33 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 2 | D0GB101JA002 |
| R3334 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3335 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3336 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3337 | ERJ6ENF1001 | M 1KOHM, 1/10W | 1 | |
| R3338,39 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R3340 | ERJ6ENF9310 | M 931 OHM, 1/10W | 1 | |
| R3341 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3342 | ERJ3GEYJ153 | M 15KOHM,J,1/16W | 1 | |
| R3343 | ERJ3GEYJ333 | M 33KOHM,J,1/16W | 1 | |
| R3344 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3345 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3346-48 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3349,50 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R3351,52 | ERJ6GEYJ184 | M 180KOHM,J,1/10W | 2 | |
| R3353-55 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 3 | |
| R3356,57 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 2 | |
| R3358-61 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 4 | D0GB101JA002 |
| R3362,63 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 2 | |
| R3364 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3365 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3366,67 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 2 | |
| R3368 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3369-72 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 4 | |

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|---|---|---|---|---|
| R3373,74 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 2 | |
| R3375-77 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3378,79 | ERJ3GEYJ3R3 | M 3.3 OHM,J,1/16W | 2 | |
| R3380-82 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 3 | |
| R3383-85 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3386,87 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 2 | |
| R3388 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3389,90 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 2 | |
| R3391 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3392 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3393,94 | ERJ3GEYJ3R3 | M 3.3 OHM,J,1/16W | 2 | |
| R3395 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3396 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3501-03 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 3 | |
| R3504 | ERJ3GEYJ393 | M 39KOHM,J,1/16W | 1 | |
| R3505 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3506 | ERJ3GEYJ183 | M 18KOHM,J,1/16W | 1 | |
| R3507 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R3508 | ERJ3GEYJ183 | M 18KOHM,J,1/16W | 1 | |
| R3509 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R3511 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3513,14 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 2 | D0GB101JA002 |
| R3516,17 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 2 | |
| R3518-22 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 5 | |
| R3532-34 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 3 | |
| R3535-37 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 3 | |
| R3538-40 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 3 | |
| R3541 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3548 | ERJ6ENF7500 | M 750 OHM, 1/10W | 1 | |
| R3549,50 | ERJ6ENF1001 | M 1KOHM, 1/10W | 2 | |
| R3801,02 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 2 | |
| R3803,04 | ERJ6GEYJ561 | M 560 OHM,J,1/10W | 2 | |
| R3805 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 1 | |
| R3806 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R3808 | ERJ3GEYJ331 | M 330 OHM,J,1/16W | 1 | |
| R3809 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3810 | ERJ6ENF1001 | M 1KOHM, 1/10W | 1 | |
| R3811 | ERJ6ENF2200 | M 220 OHM, 1/10W | 1 | |
| R3812 | ERJ6ENF3300 | M 330 OHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R3813 | ERJ6ENF6801 | M 6.8KOHM, 1/10W | 1 | |
| R3814 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R3815 | ERJ6ENF2200 | M 220 OHM, 1/10W | 1 | |
| R3816 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 1 | |
| R3817 | ERJ3GEYJ561 | M 560 OHM,J,1/16W | 1 | |
| R3818 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3819 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3820 | ERJ6GEYJ561 | M 560 OHM,J,1/10W | 1 | |
| R3821 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 1 | |
| R3822 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3823 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3824 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R3825 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3826 | ERJ6ENF1500 | M 150 OHM, 1/10W | 1 | |
| R3827 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R3828 | ERJ6ENF47R0 | M 47 OHM, 1/10W | 1 | |
| R3829 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3830,31 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 2 | |
| R3832 | ERJ6ENF47R0 | M 47 OHM, 1/10W | 1 | |
| R3833 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3834 | ERJ6ENF47R0 | M 47 OHM, 1/10W | 1 | |
| R3835 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R3836 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3837-40 | EXB38V471J | RESISTOR ARRAY | 4 | |
| R3841 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3842 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R3843 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3845 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3846 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3848 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R3849 | ERJ6ENF3000 | M 300 OHM, 1/10W | 1 | |
| R3850 | ERJ6ENF1500 | M 150 OHM, 1/10W | 1 | |
| R3851 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3852 | ERJ6ENF4701 | M 4.7KOHM, 1/10W | 1 | |
| R3853 | ERJ3GEYJ561 | M 560 OHM,J,1/16W | 1 | |
| R3854 | ERJ6ENF2400 | M 240 OHM, 1/10W | 1 | |
| R3855 | ERJ6ENF2701 | M 2.7KOHM, 1/10W | 1 | |
| R3856 | ERJ6ENF2400 | M 240 OHM, 1/10W | 1 | |
| R3857 | ERJ6ENF2701 | M 2.7KOHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R3858 | ERJ6ENF2400 | M 240 OHM, 1/10W | 1 | |
| R3859 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R3860 | ERJ3GEYJ391 | M 390 OHM,J,1/16W | 1 | D0GB391JA002 |
| R3861 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 1 | |
| R3862 | ERJ3GEYJ331 | M 330 OHM,J,1/16W | 1 | |
| R3863,64 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 2 | |
| R3865 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R3866 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R3867-69 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3870 | ERJ3GEYJ823 | M 82KOHM,J,1/16W | 1 | |
| R3871 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3872 | ERJ3GEYJ680 | M 68 OHM,J,1/16W | 1 | ERJ3GEYJ680V |
| R3873 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R3874 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3875,76 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 2 | |
| R3877 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3879 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R3881 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3884-86 | ERJ3GEYJ820 | M 82 OHM,J,1/16W | 3 | D0GB820JA006 |
| R3887 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3888 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3890 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R3891 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3892 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R3893 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R3894 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R3895 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| | | | | |
| RTL | TNPA2245 | CIRCUIT BOAD | 1 | |
| | | | | |
| X3801 | TSSA148 | CRYSTAL | 1 | H0J202500002 |
| | | | | |
| | | MISCELLANEOUS | | |
| | XTV3+10J | SCREW | 5 | |
| | XYN3+F8 | SCREW | 4 | |
| | TPCB13101 | CARTON BOX | 1 | |
| | TPDF0726 | PARTITION | 1 | |
| | TPEH161 | AIR MAT | 1 | |
| | TBMU180 | BNC SHEET | 1 | |

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|---|---|---|---|---|
| | TQBC0285 | INSTRUCTION BOOK | 1 | |
| | XZBT6506 | POLY BAG | 1 | |
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TOP PREVIOUS NEXT

# 16.4 Option TY-42TM4Z Replacement Parts List

TOP PREVIOUS NEXT

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| C3301,02 | ECJ2XB1E104K | C 0.1UF, K, 25V | 2 | |
| C3303,04 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C3305 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3306,07 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3309 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3310 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3311 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3312,13 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C3314 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3351,52 | ECJ3XB0J106M | C 10UF, M,6.3V | 2 | |
| C3353-60 | ECJ2VF1C105Z | C 1UF, Z, 16V | 8 | |
| C3361 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3362 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3363 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3364 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3365 | ECJ2VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3501 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3502 | EEVHP1E220 | E 22UF, 25V | 1 | |
| C3503,04 | EEVHP1E100 | E 10UF, 25V | 2 | |
| C3505 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3506 | TCUY0J685MBM | C 6.8UF, 6.3V | 1 | F1K0J685A003 |
| C3507 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3509-12 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C3700 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3701 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3702 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3703 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3704 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3706 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3708 | EEVHB0G221 | E 220UF, 4V | 1 | |

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|---|---|---|---|---|
| C3709 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3710-13 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 4 | |
| C3714 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C3715 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C3716 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C3717,18 | EEVHB1C470 | E 47UF, 16V | 2 | |
| C3723 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3726 | ECJ2VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3727,28 | ECJ3XB0J106M | C 10UF, M,6.3V | 2 | |
| C3729 | ECJ1XB1H471K | C 470PF, K, 50V | 1 | ECUM1H471KBN |
| C3801 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3802 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3803 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3804 | ECJ1XC1H470J | C 47PF, J, 50V | 1 | |
| C3805 | ECJ1XC1H220J | C 22PF, J, 50V | 1 | |
| C3806 | ECJ1XC1H680J | C 68PF, J, 50V | 1 | ECUX1H680JCV |
| C3808 | EEVHP1E220 | E 22UF, 25V | 1 | |
| C3809 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3810 | EEVHB0J220 | E 22UF 6.3V | 1 | |
| C3812 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3815 | EEVHB1C470 | E 47UF, 16V | 1 | |
| C3816 | EEVHP1E100 | E 10UF, 25V | 1 | |
| C3817 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3818 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3819 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3820 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3821 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3823 | EEVHB0J101 | E 100UF, 6.3V | 1 | EEVHB0J101P |
| C3824,25 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3826 | ECJ1VF1C104Z | C 0.1UF, Z, 16V | 1 | |
| C3828,29 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3830,31 | ECJ1XC1H180J | C 18PF, J, 50V | 2 | ECUX1H180JCV |
| C3832-34 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3835 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3836-38 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3840 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3841 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3842 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3843 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |

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|---|---|---|---|---|
| C3844 | EEVHB0J152P | E 1000UF, 6.3V | 1 | |
| C3845,46 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3848-50 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3852,53 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3854 | ECJ1VC1H080C | C 0.8PF, J, 50V | 1 | |
| C3855-57 | ECJ2VF1C105Z | C 1UF, Z, 16V | 3 | |
| C3858 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C3859,60 | EEVHB0J152P | E 1000UF, 6.3V | 2 | |
| C3861 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3862 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3863 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3864 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3865 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3866 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3867 | ECJ1VF1H103Z | C 0.01UF, Z, 50V | 1 | |
| C3868 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3869 | ECJ1XC1H330J | C 33PF, J, 50V | 1 | |
| C3870,71 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3872 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3873 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3874 | ECJ1VB1H103K | C 0.01UF, K, 50V | 1 | |
| C3875 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3876 | ECJ1VB1H102K | C 1000PF, K, 50V | 1 | |
| C3877 | ECJ1VB1C104K | C 0.1UF, K, 16V | 1 | |
| C3878-83 | ECJ2VF1C105Z | C 1UF, Z, 16V | 6 | |
| C3884 | ECJ1VB1H153K | C 0.15UF, K, 50V | 1 | |
| C3885 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3886 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3887 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3888 | ECJ1XC1H101J | C 100PF, J, 50V | 1 | |
| C3889 | ECJ1VB1H472K | C 4700PF, K, 50V | 1 | |
| C3890 | ECJ3XB0J106M | C 10UF, M,6.3V | 1 | |
| C3891,92 | ECJ2VF1C105Z | C 1UF, Z, 16V | 2 | |
| C3893 | TCUY0J335MBM | C 3.3UF, 6.3V | 1 | F1K0J335A003 |
| C3894 | EEVHB0G221 | E 220UF, 4V | 1 | |
| C3896 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3897 | ECJ1XC1H680J | C 68PF, J, 50V | 1 | ECUX1H680JCV |
| C3898 | ECJ2VF1C105Z | C 1UF, Z, 16V | 1 | |
| C3899 | ECJ1XC1H330J | C 33PF, J, 50V | 1 | |

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|---|---|---|---|---|
| D3351,52 | MA153 | DIODE | 2 | MA3X153 |
| | | | | |
| H1 | K1KB50B00030 | CONNECTOR | 1 | |
| H2 | K1KB40B00015 | CONNECTOR | 1 | |
| | | | | |
| IC3301 | TC4W53F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAR000225 |
| IC3302 | AD8055ART | IC | 1 | C0ABGB000001 |
| IC3303 | TC4W53F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAR000225 |
| IC3501 | JLC1562BF | MOS IC (MICON LSI) * | 1 | C0JBAZ001265 |
| IC3699 | TVRJ595 | ROM IC (EEPROM 16KBIT) | 1 | C3EAGC000012 |
| IC3801 | C0CBABB00029 | IC | 1 | |
| IC3802 | PST9128NR | IC | 1 | C0EBE0000066 |
| IC3803 | TVSA0367 | IC | 1 | C3ABMG000064 |
| IC3804 | C1AB00001494 | OR C1AB00001468 | 1 | |
| IC3805,06 | C0CBABB00029 | IC | 2 | |
| IC3809 | TC74LCX244F | MOS IC (CMOS S/LOGIC) | 1 | C0JBAZ001234 |
| | | | | |
| JK3301 | K1CB106B0027 | CONNECTOR | 1 | |
| JK3305 | K2HA306B0048 | JACK | 1 | |
| JK3306 | K2HA306B0049 | JACK | 1 | |
| JK3307 | K2HA204B0097 | JACK | 1 | |
| JK3308 | K2HA204B0096 | JACK | 1 | |
| | | | | |
| JS1-24 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 24 | |
| JS28-32 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 5 | |
| JS35 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| | | | | |
| L3301 | TLK20LFA223M | EMI FILTER | 1 | J0HABB000003 |
| L3302,03 | TLK20LFA224M | EMI FILTER | 2 | J0HABB000004 |
| L3304,05 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3306,07 | ELJPA100KB | CHIP INDUCTOR | 2 | |
| L3351,52 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3353-55 | TLK20LFA224M | EMI FILTER | 3 | J0HABB000004 |
| L3356,57 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3358,59 | ELJPA100KB | CHIP INDUCTOR | 2 | |
| L3501 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| L3801,02 | TLK20LFA224M | EMI FILTER | 2 | J0HABB000004 |
| L3803 | G1C100KA0008 | INDUCTOR COIL | 1 | |

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|---|---|---|---|---|
| L3804 | ERJ8GEY0R00 | M 0 OHM, 1/8W | 1 | |
| L3806 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| L3807 | TALC168T2R2K | CHIP INDUCTOR COIL | 1 | |
| L3808 | G1C100KA0008 | INDUCTOR COIL | 1 | |
| L3809 | TALC325T4R7M | CHIP INDUCTOR COIL | 1 | |
| L3810,11 | G1C100KA0008 | INDUCTOR COIL | 2 | |
| L3813 | TALC168T4R7K | CHIP INDUCTOR COIL | 1 | |
| L3814-16 | G1C100KA0008 | INDUCTOR COIL | 3 | |
| L3817-19 | TLK20LFA224M | EMI FILTER | 3 | J0HABB000004 |
| L3820,21 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3822-25 | ELKE103FA | NOISE FILTER | 4 | |
| L3826,27 | TLK20LFA224M | EMI FILTER | 2 | J0HABB000004 |
| L3828,29 | TLK20LFA223M | EMI FILTER | 2 | J0HABB000003 |
| L3830 | ELJPA100KB | CHIP INDUCTOR | 1 | |
| | | | | |
| LC3805 | ELB4B578 | LC FILTER | 1 | |
| | | | | |
| Q3301-09 | 2SD601A | TRANSISTOR | 9 | 2SD0601A |
| Q3351,52 | 2SD601A | TRANSISTOR | 2 | 2SD0601A |
| Q3353 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3354-58 | 2SD601A | TRANSISTOR | 5 | 2SD0601A |
| Q3359 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3501-03 | 2SD601A | TRANSISTOR | 3 | 2SD0601A |
| Q3507-09 | 2SB709A | TRANSISTOR | 3 | 2SB0709A |
| Q3801,02 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q3803,04 | 2SD601A | TRANSISTOR | 2 | 2SD0601A |
| Q3805-07 | 2SB709A | TRANSISTOR | 3 | 2SB0709A |
| Q3808 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q3809 | 2SK198R | FET | 1 | 2SK01980R |
| Q3810 | 2SD601A | TRANSISTOR | 1 | 2SD0601A |
| Q3812,13 | 2SB709A | TRANSISTOR | 2 | 2SB0709A |
| Q3815 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| Q3817 | 2SB709A | TRANSISTOR | 1 | 2SB0709A |
| | | | | |
| R3301 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 1 | |
| R3303 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3304,05 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 2 | |
| R3306 | ERJ6GEYJ184 | M 180KOHM,J,1/10W | 1 | |
| R3307 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 1 | |

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|---|---|---|---|---|
| R3308 | ERJ6GEYJ184 | M 180KOHM,J,1/10W | 1 | |
| R3309 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3310 | ERJ3GEYJ153 | M 15KOHM,J,1/16W | 1 | |
| R3311 | ERJ3GEYJ333 | M 33KOHM,J,1/16W | 1 | |
| R3312 | ERJ3GEYJ123 | M 12KOHM,J,1/16W | 1 | |
| R3313 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3314 | ERJ3GEYJ123 | M 12KOHM,J,1/16W | 1 | |
| R3315 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3316-18 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3319-21 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 3 | |
| R3322 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3323 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| R3324 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3325-27 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3328-31 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 4 | |
| R3332,33 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 2 | D0GB101JA002 |
| R3334 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3335 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3336 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3337 | ERJ6ENF1001 | M 1KOHM, 1/10W | 1 | |
| R3338,39 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 2 | |
| R3340 | ERJ6ENF9310 | M 931 OHM, 1/10W | 1 | |
| R3341 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3342 | ERJ3GEYJ153 | M 15KOHM,J,1/16W | 1 | |
| R3343 | ERJ3GEYJ333 | M 33KOHM,J,1/16W | 1 | |
| R3344 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3345 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3346-48 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3349,50 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 2 | |
| R3351,52 | ERJ6GEYJ184 | M 180KOHM,J,1/10W | 2 | |
| R3353-55 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 3 | |
| R3356,57 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 2 | |
| R3358-61 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 4 | D0GB101JA002 |
| R3362,63 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 2 | |
| R3364 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3365 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3366,67 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 2 | |
| R3368 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3369-72 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 4 | |

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|---|---|---|---|---|
| R3373,74 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 2 | |
| R3375-77 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3378,79 | ERJ3GEYJ3R3 | M 3.3 OHM,J,1/16W | 2 | |
| R3380-82 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 3 | |
| R3383-85 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3386,87 | ERJ3GEYJ104 | M 100KOHM,J,1/16W | 2 | |
| R3388 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3389,90 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 2 | |
| R3391 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3392 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3393,94 | ERJ3GEYJ3R3 | M 3.3 OHM,J,1/16W | 2 | |
| R3395 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3396 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3501-03 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 3 | |
| R3504 | ERJ3GEYJ393 | M 39KOHM,J,1/16W | 1 | |
| R3505 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3506 | ERJ3GEYJ183 | M 18KOHM,J,1/16W | 1 | |
| R3507 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R3508 | ERJ3GEYJ183 | M 18KOHM,J,1/16W | 1 | |
| R3509 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R3511 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3513,14 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 2 | D0GB101JA002 |
| R3516,17 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 2 | |
| R3518-22 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 5 | |
| R3532-34 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 3 | |
| R3535-37 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 3 | |
| R3538-40 | ERJ6ENF75R0 | M 75 OHM, 1/10W | 3 | |
| R3541 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3548 | ERJ6ENF7500 | M 750 OHM, 1/10W | 1 | |
| R3549,50 | ERJ6ENF1001 | M 1KOHM, 1/10W | 2 | |
| R3801,02 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 2 | |
| R3803,04 | ERJ6GEYJ561 | M 560 OHM,J,1/10W | 2 | |
| R3805 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 1 | |
| R3806 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R3808 | ERJ3GEYJ331 | M 330 OHM,J,1/16W | 1 | |
| R3809 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3810 | ERJ6ENF1001 | M 1KOHM, 1/10W | 1 | |
| R3811 | ERJ6ENF2200 | M 220 OHM, 1/10W | 1 | |
| R3812 | ERJ6ENF3300 | M 330 OHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R3813 | ERJ6ENF6801 | M 6.8KOHM, 1/10W | 1 | |
| R3814 | ERJ6ENF1002 | M 10KOHM, 1/10W | 1 | |
| R3815 | ERJ6ENF2200 | M 220 OHM, 1/10W | 1 | |
| R3816 | ERJ6GEYJ331 | M 330 OHM,J,1/10W | 1 | |
| R3817 | ERJ3GEYJ561 | M 560 OHM,J,1/16W | 1 | |
| R3818 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3819 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3820 | ERJ6GEYJ561 | M 560 OHM,J,1/10W | 1 | |
| R3821 | ERJ3GEYJ222 | M 2.2KOHM,J,1/16W | 1 | |
| R3822 | ERJ3GEYJ682 | M 6.8KOHM,J,1/16W | 1 | |
| R3823 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3824 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R3825 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3826 | ERJ6ENF1500 | M 150 OHM, 1/10W | 1 | |
| R3827 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R3828 | ERJ6ENF47R0 | M 47 OHM, 1/10W | 1 | |
| R3829 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3830,31 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 2 | |
| R3832 | ERJ6ENF47R0 | M 47 OHM, 1/10W | 1 | |
| R3833 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3834 | ERJ6ENF47R0 | M 47 OHM, 1/10W | 1 | |
| R3835 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R3836 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3837-40 | EXB38V471J | RESISTOR ARRAY | 4 | |
| R3841 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3842 | ERJ3GEYJ332 | M 3.3KOHM,J,1/16W | 1 | |
| R3843 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3845 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3846 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3848 | ERJ3GEYJ472 | M 4.7KOHM,J,1/16W | 1 | |
| R3849 | ERJ6ENF3000 | M 300 OHM, 1/10W | 1 | |
| R3850 | ERJ6ENF1500 | M 150 OHM, 1/10W | 1 | |
| R3851 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3852 | ERJ6ENF4701 | M 4.7KOHM, 1/10W | 1 | |
| R3853 | ERJ3GEYJ561 | M 560 OHM,J,1/16W | 1 | |
| R3854 | ERJ6ENF2400 | M 240 OHM, 1/10W | 1 | |
| R3855 | ERJ6ENF2701 | M 2.7KOHM, 1/10W | 1 | |
| R3856 | ERJ6ENF2400 | M 240 OHM, 1/10W | 1 | |
| R3857 | ERJ6ENF2701 | M 2.7KOHM, 1/10W | 1 | |

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|---|---|---|---|---|
| R3858 | ERJ6ENF2400 | M 240 OHM, 1/10W | 1 | |
| R3859 | ERJ3GEYJ151 | M 150 OHM,J,1/16W | 1 | |
| R3860 | ERJ3GEYJ391 | M 390 OHM,J,1/16W | 1 | D0GB391JA002 |
| R3861 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 1 | |
| R3862 | ERJ3GEYJ331 | M 330 OHM,J,1/16W | 1 | |
| R3863,64 | ERJ3GEYJ272 | M 2.7KOHM,J,1/16W | 2 | |
| R3865 | ERJ3GEYJ221 | M 220 OHM,J,1/16W | 1 | |
| R3866 | ERJ3GEYJ220 | M 22 OHM,J,1/16W | 1 | |
| R3867-69 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 3 | D0GB101JA002 |
| R3870 | ERJ3GEYJ823 | M 82KOHM,J,1/16W | 1 | |
| R3871 | ERJ3GEYJ103 | M 10KOHM,J,1/16W | 1 | |
| R3872 | ERJ3GEYJ680 | M 68 OHM,J,1/16W | 1 | ERJ3GEYJ680V |
| R3873 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R3874 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3875,76 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 2 | |
| R3877 | ERJ3GEYJ471 | M 470 OHM,J,1/16W | 1 | |
| R3879 | ERJ3GEYJ152 | M 1.5KOHM,J,1/16W | 1 | |
| R3881 | ERJ3GEYJ102 | M 1KOHM,J,1/16W | 1 | |
| R3884-86 | ERJ3GEYJ820 | M 82 OHM,J,1/16W | 3 | D0GB820JA006 |
| R3887 | ERJ3GEYJ101 | M 100 OHM,J,1/16W | 1 | D0GB101JA002 |
| R3888 | ERJ3GEY0R00 | M 0 OHM, 1/16W | 1 | |
| R3890 | ERJ6GEY0R00 | M 0 OHM,J,1/10W | 1 | |
| R3891 | ERJ6GEYJ101 | M 100 OHM,J,1/10W | 1 | |
| R3892 | ERJ6GEYJ473 | M 47KOHM,J,1/10W | 1 | |
| R3893 | ERJ6GEYJ102 | M 1KOHM,J,1/10W | 1 | |
| R3894 | ERJ6GEYJ103 | M 10KOHM,J,1/10W | 1 | |
| R3895 | ERJ6GEYJ472 | M 4.7KOHM,J,1/10W | 1 | |
| | | | | |
| RTL | TNPA2248 | CIRCUIT BOAD | 1 | |
| | | | | |
| X3801 | TSSA148 | CRYSTAL | 1 | H0J202500002 |
| | | | | |
| | | MISCELLANEOUS | | |
| | XTV3+10J | SCREW | 4 | |
| | XYN3+F8 | SCREW | 4 | |
| | TPCB13102 | CARTON BOX | 1 | |
| | TPDF0726 | PARTITION | 1 | |
| | TPEH161 | AIR MAT | 1 | |
| | TBMU182 | RCA SHEET | 1 | |

| | | | | |
|---|---|---|---|---|
| | TQBC0284 | INSTRUCTION BOOK | 1 | |
| | XZBT6506 | POLY BAG | 1 | |
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| | | | | |
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| | | | | |
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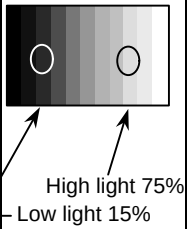
TOP PREVIOUS NEXT

# 17 Schematic Diagram for printing with A4 size

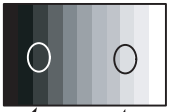
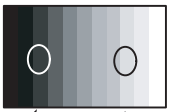
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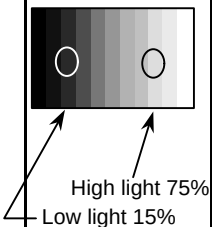


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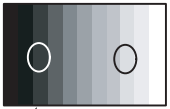
| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 1 | PC<br>Gray Scale<br>Pattern<br>  <br> | Color<br>Analyzer | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Sub Adjust<br>Sub Bright<br>PANEL W/B<br>G cut off<br>PANEL W/B<br>B cut off<br>R cut off<br>Sub Adjust<br>Sub Bright<br><br><br>PANEL W/B<br>G Drive<br>PANEL W/B<br>B Drive<br>R Drive<br><br><br><br>PANEL W/B<br>R,G,B Drive<br>R,G,B Drive<br>PANEL W/B<br>R,G,B cut off | 1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor.<br>2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly.<br>3) Set G cut off to " 80 ".<br>4) Adjust B and R cut off to set color temperature as shown Fig.-03.<br>5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2.<br>6)Find 75% of white area by color sensor.<br>7) Set G Drive to " D8 ".<br>8) Adjust B and R Drive to set color temperature as shown Fig.-03.<br>9) Repeat item 4) to 7) to set both Low light and high light.<br>10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".<br>11) Re-adjust Low light level again.<br><br>Fig. -03 |
| 2 | | | Picture:<br>Normal<br>White balance:<br>**Normal**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Normal".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 3 | | | Picture:<br>Normal<br>White balance:<br>**Warm**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Warm".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 4 | | | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Picture Menu<br>Sub Adjust<br>Sub Bright | 1) Change color templature to "Cool".<br>2)Re-set Sub bright to "30" |

| Color Temp. | x | y |
|---|---|---|
| Cool(Hi) | 0.272 | 0.290 |
| Normal(Mid) | 0.288 | 0.296 |
| Warm(Low) | 0.313 | 0.329 |

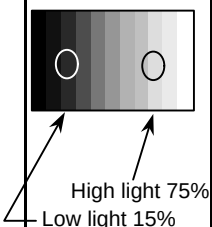
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB<br>Gray Scale<br>Pattern<br>  <br>High light 75%<br>Low light 15%</td><td></td><td>Picture:<br>Normal<br>Aspect:<br>16:9<br><br>White balance:<br>Cool<br>Normal<br>Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.<br><br><table><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table><br>2) Input RGB signal.<br><br>3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</td></tr>
<tr><td>6</td><td>DVI<br>Gray Scale<br>Pattern<br>  <br>High light 75%<br>Low light 15%</td><td></td><td>Picture:<br>Normal<br>Aspect:<br>16:9<br><br>White balance:<br>Cool<br>Normal<br>Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.<br><br><table><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table><br>2) Input DVI signal.<br><br>3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.</td></tr>
</table>

| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 1 | HD<br>(720i or 1080i)<br>Gray Scale<br>Pattern<br>  <br> | Color<br>Analyzer | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Sub Adjust<br>Sub Bright<br>PANEL W/B<br>G cut off<br>PANEL W/B<br>B cut off<br>R cut off<br>Sub Adjust<br>Sub Bright<br><br><br>PANEL W/B<br>G Drive<br>PANEL W/B<br>B Drive<br>R Drive<br><br><br><br>PANEL W/B<br>R,G,B Drive<br>R,G,B Drive<br>PANEL W/B<br>R,G,B cut off | 1) Find the nearest area to brightness of 10 cd/$m_2$ as Low light by color sensor.<br>2) Adjust Sub bright to set Low light level to 10 cd/$m_2$ exactly.<br>3) Set G cut off to " 80 ".<br>4) Adjust B and R cut off to set color temperature as shown Fig.-04.<br>5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/$m_2$.<br>6)Find 75% of white area by color sensor.<br>7) Set G Drive to " D8 ".<br>8) Adjust B and R Drive to set color temperature as shown Fig.-04.<br>9) Repeat item 4) to 7) to set both Low light and high light.<br>10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".<br>11) Re-adjust Low light level again.<br><br>Fig. -04 |
| 2 | | | Picture:<br>Normal<br>White balance:<br>**Normal**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Normal".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 3 | | | Picture:<br>Normal<br>White balance:<br>**Warm**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Warm".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 4 | | | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Picture Menu<br>Sub Adjust<br>Sub Bright | 1) Change color templature to "Cool".<br>2)Re-set Sub bright to "30" |

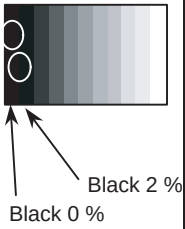
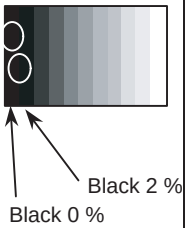
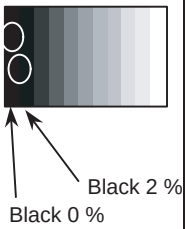
| Color Temp. | x | y |
|---|---|---|
| Cool(Hi) | 0.272 | 0.290 |
| Normal(Mid) | 0.288 | 0.296 |
| Warm(Low) | 0.313 | 0.329 |

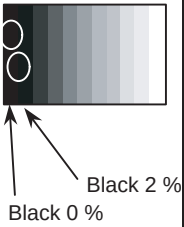
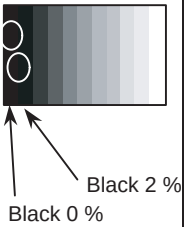
| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 5 | RGB<br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>Aspect:<br>16:9<br><br>White balance:<br>**Cool**<br>**Normal**<br>**Warm** | | 1) Write down each color temaparature of R,G,B drive and Cut off data as follows.<br><br>2)Change input signal to 525i and 525p.<br><br>3) Copy HD drive and cut off data of each white balance mode to each signals position. |

| White Balance | Cool | Normal | Warm |
|---|---|---|---|
| R Drive | | | |
| G Drive | | | |
| B Drive | | | |
| R Cut off | | | |
| G Cut off | | | |
| B Cut off | | | |

| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 1 | 625i<br>Gray Scale<br>Pattern<br>  <br> | Color<br>Analyzer | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Sub Adjust<br>Sub Bright<br>PANEL W/B<br>G cut off<br>PANEL W/B<br>B cut off<br>R cut off<br>Sub Adjust<br>Sub Bright<br><br><br>PANEL W/B<br>G Drive<br>PANEL W/B<br>B Drive<br>R Drive<br><br><br>PANEL W/B<br>R,G,B Drive<br>R,G,B Drive<br>PANEL W/B<br>R,G,B cut off | 1) Find the nearest area to brightness of 10 cd/$m_2$ as Low light by color sensor.<br>2) Adjust Sub bright to set Low light level to 10 cd/$m_2$ exactly.<br>3) Set G cut off to " 80 ".<br>4) Adjust B and R cut off to set color temperature as shown Fig.-05.<br>5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/$m_2$.<br>6)Find 75% of white area by color sensor.<br>7) Set G Drive to " D8 ".<br>8) Adjust B and R Drive to set color temperature as shown Fig.-05.<br>9) Repeat item 4) to 7) to set both Low light and high light.<br>10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".<br>11) Re-adjust Low light level again.<br><br>Fig. -05 |
| 2 | | | Picture:<br>Normal<br>White balance:<br>**Normal**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Normal".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 3 | | | Picture:<br>Normal<br>White balance:<br>**Warm**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Warm".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 4 | | | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Picture Menu<br>Sub Adjust<br>Sub Bright | 1) Change color templature to "Cool".<br>2)Re-set Sub bright to "30" |

| Color Temp. | x | y |
|---|---|---|
| Cool(Hi) | 0.272 | 0.290 |
| Normal(Mid) | 0.288 | 0.296 |
| Warm(Low) | 0.313 | 0.329 |

| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 1 | NTSC<br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>Aspect:<br>16:9 | PANEL W/B<br>All cut off | ** Adjust at the dark room.<br>1) Set white balance to **Cool**.<br>2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area.<br>3) Write down all cut off data.<br>4) Set white balance to **Nornal**.<br>5) Adjust All cut off to set same data of Cool mode.<br>6) Set white balance to **warm**.<br>7) Adjust All cut off to set same data of Cool mode. |
| 2 | PAL<br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>Aspect:<br>16:9 | PANEL W/B<br>All cut off | ** Adjust at the dark room.<br>1) Set white balance to **Cool**.<br>2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area.<br>3) Write down all cut off data.<br>4) Set white balance to **Nornal**.<br>5) Adjust All cut off to set same data of Cool mode.<br>6) Set white balance to **warm**.<br>7) Adjust All cut off to set same data of Cool mode. |
| | SECAM<br>Gray Scale<br>Pattern | | | | 8) Change to SECAM signal.<br>9) Copy PAL All cut off data to SECAM mode. |
| 3 | PC<br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>Aspect:<br>16:9 | PANEL W/B<br>All cut off | ** Adjust at the dark room.<br>1) Set white balance to **Cool**.<br>2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area.<br>3) Write down all cut off data.<br>4) Set white balance to **Nornal**.<br>5) Adjust All cut off to set same data of Cool mode.<br>6) Set white balance to **warm**.<br>7) Adjust All cut off to set same data of Cool mode. |
| | RGB<br>Gray Scale<br>Pattern | | | | 8) Change to RGB input signal.<br>9) Copy PC All cut off data to RGB mode. |
| | DVI<br>Gray Scale<br>Pattern | | | | 10) Change to DVI input signal.<br>11) Copy PC All cut off data to DVI mode. |

| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 4 | 525i<br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>Aspect:<br>16:9 | PANEL W/B<br>All cut off | ** Adjust at the dark room.<br>1) Set white balance to **Cool**.<br>2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area.<br>3) Write down all cut off data.<br>4) Set white balance to **Nornal**.<br>5) Adjust All cut off to set same data of Cool mode.<br>6) Set white balance to **warm**.<br>7) Adjust All cut off to set same data of Cool mode. |
| | 525p<br>Gray Scale<br>Pattern | | | | 8) Change to 525p signal.<br>9) Copy 525i All cut off data to 525p mode. |
| | HD<br>(720i or 1080i)<br>Gray Scale<br>Pattern | | | | 8) Change to HD signal.<br>9) Copy 525i All cut off data to HD mode. |
| 5 | 625i<br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>Aspect:<br>16:9 | PANEL W/B<br>All cut off | ** Adjust at the dark room.<br>1) Set white balance to **Cool**.<br>2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area.<br>3) Write down all cut off data.<br>4) Set white balance to **Nornal**.<br>5) Adjust All cut off to set same data of Cool mode.<br>6) Set white balance to **warm**.<br>7) Adjust All cut off to set same data of Cool mode. |

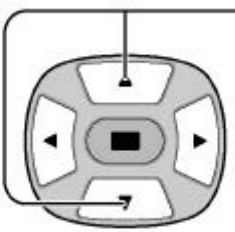
## How to access the Option menu

**1**

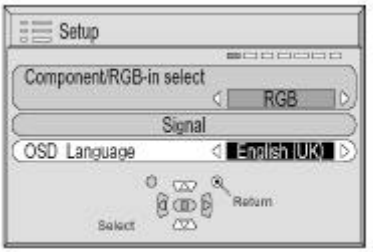



Press to display the Setup menu.

**2**



Press to select
OSD Language.



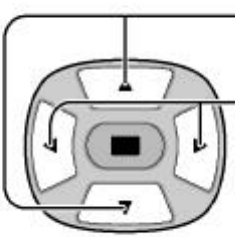

**3**




Press down for more than
3 seconds to display the
Option menu.

## Setting the Option menus

**1**



Press to select the desired item.

Press to select the desired function.

The option menu will disappear 60 seconds after operation.

**2**




Press to exit Option menu.

# Hidden Option Menu for TH-50PHD30 series

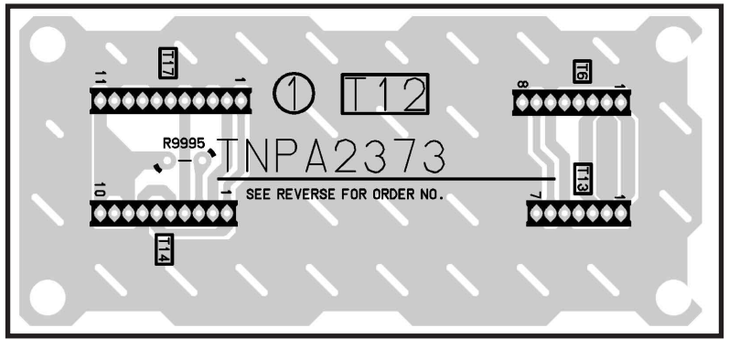
(Not available for TH-50PHW30 series models)

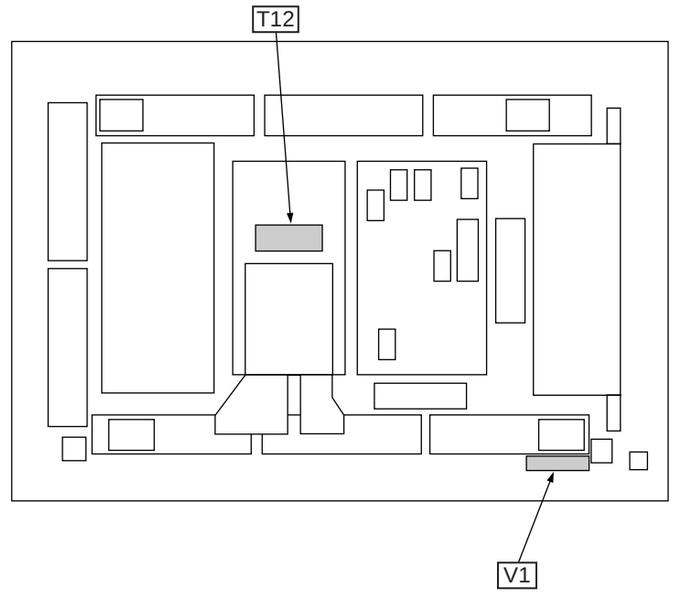
System route models TH-50PHD30 series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these because of hidden On screen menu.

| Option menus | default setting | Contents |
|---|---|---|
| Wobbling | Off | Screen image shift OFF.<br>Turns off the screen shift function that prevents after-images from appearing on the screen. |
| Off-timer function | Enable | Off-timer operation invalidation.<br>The off-timer function is made invalid. |
| On Screen display | On | On-screen display OFF.<br>Turns off the on-screen display that indicates power on, input modes and when no signal is received. |
| Initial Input | Off | Startup input setting.<br>Sets the input mode when the power is turned on (VIDEO, COMPONENT, VIDEO/RGB, PC). Input mode switching is possible after the power is turned on. |
| Initial VOL. level | Off | Startup volume setting.<br>Sets the volume level when the power is turned on. Volume can be adjusted after the power is turned on. |
| Maximum VOL. Level | Off | Maximum volume setting Fix input mode.<br>Sets the maximum volume level. Volume cannot exceed this limit. |
| INPUT lock | Off | Input mode cannot be switch.<br>Fixes the input mode to (VIDEO, COMPONENT, VIDEO/RGB, PC) and input mode cannot be switched. |
| Button lock | Off | Front operation button invalidation.<br>Front operation buttons are made invalid. Several combinations of button invalidation are possible ; just the selection keys (VOL. keys, just the INPUT key, or both VOL. keys and INPUT key.). |
| Studio W/B | Off | Set the screen color temperature to 3,200 kelvin.<br>(use when the contents displayed on the screen needs to be firmed for use in news programs or other purposes.) This is valid when the setting is turned ON and the WHITE BALANCE in the PICTURE menu is set to WARM. |
| Remocon User Level | Off | Remocon key invalidation.<br>Off : Valid key is all key of remocon.<br>User1 : Valid key are only Stand-by (ON/OFF), Input, Status, Surround, Sound mute On/Off, and volume adjustment.<br>User2 : Valid key is only Stand-by (ON/OFF). |

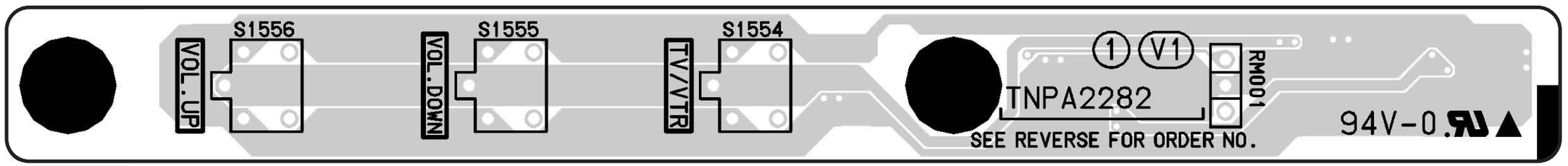
Note of Remocon User Level:
All key of remote control is valid in the service mode (CAT-mode) regardless of the setting of Remocon User Level. To change the option setting when the Remocon User Level is set in the User1 or User2, access the service mode (CAT-mode) first, then display the option menu the same method.

**T12-BOARD**
**TNPA2373**

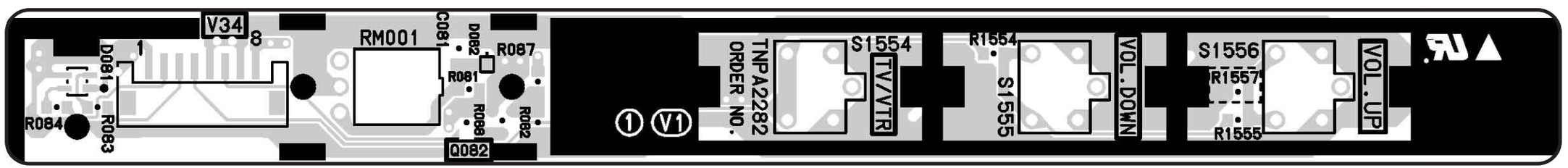


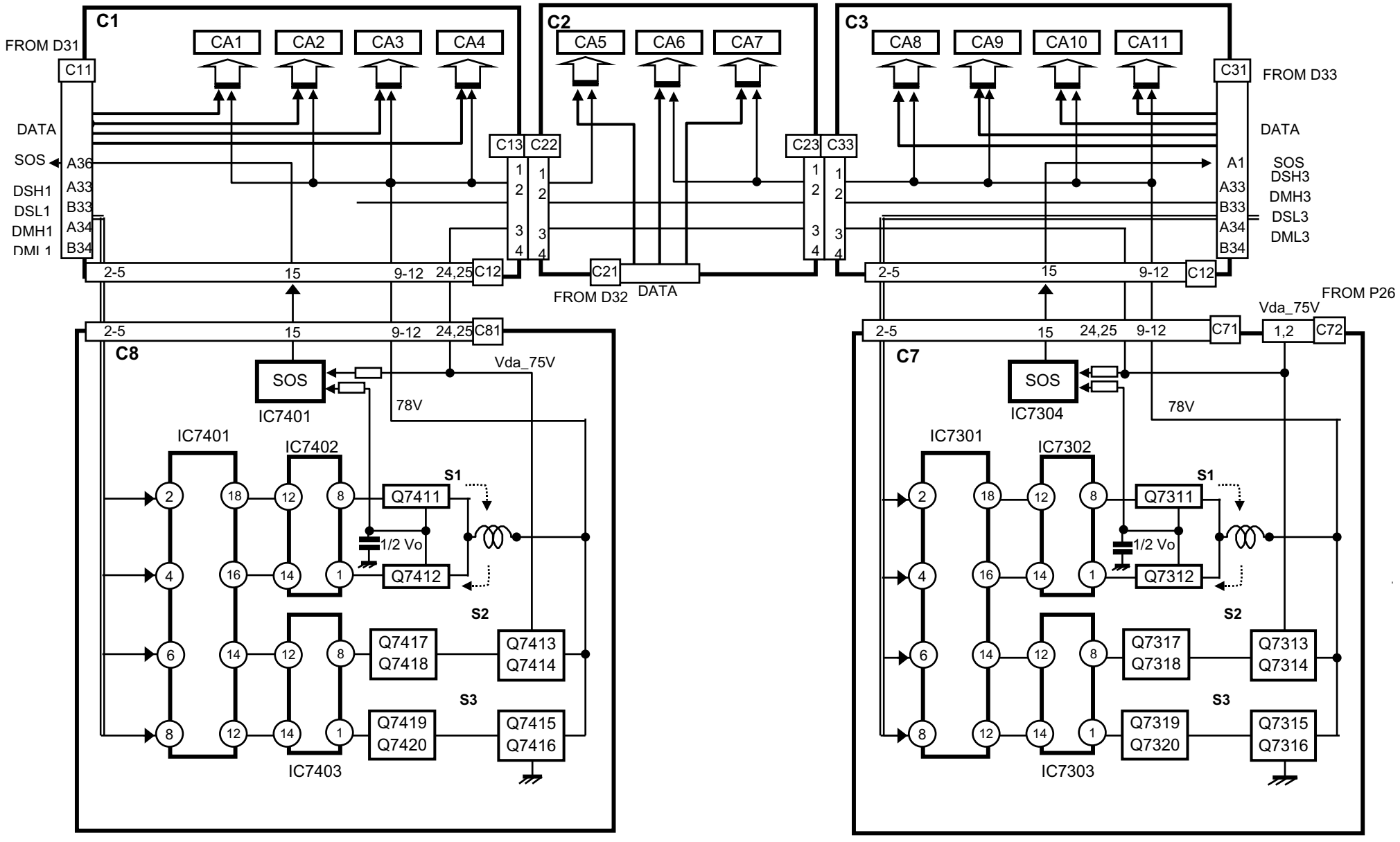



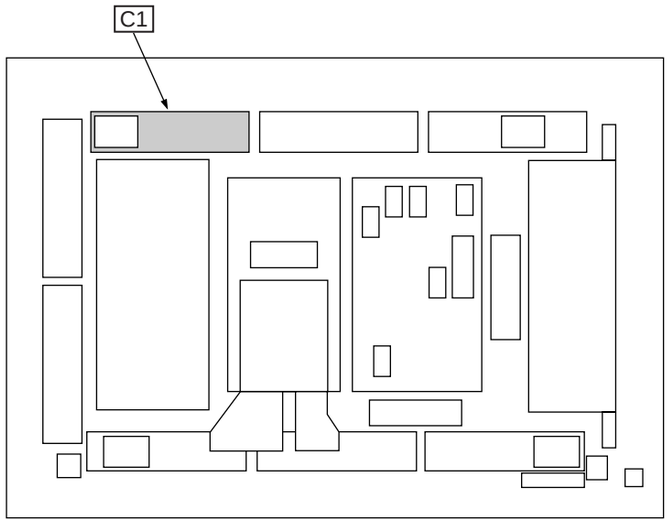

**V1-BOARD(FOIL SIDE)**
**TNPA2282**



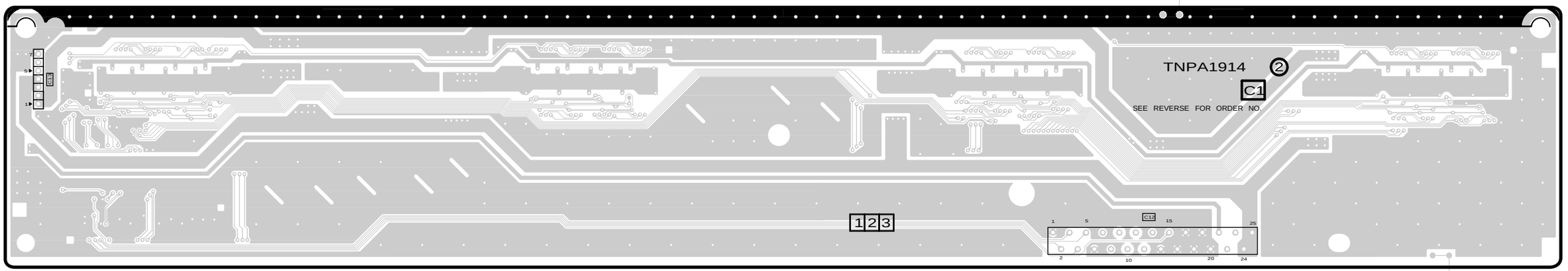

**V1-BOARD(COMPONENT SIDE)**
**TNPA2282**



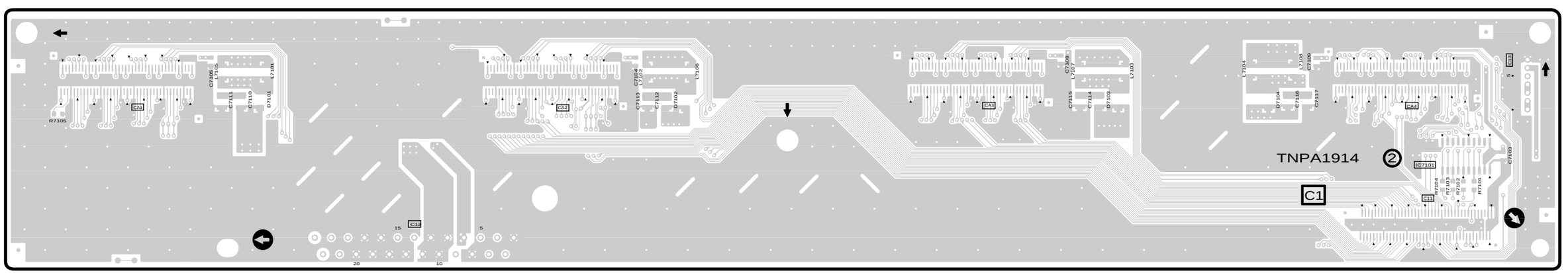

C1
C2
C3
FROM D31
CA1
CA2
CA3
CA4
CA5
CA6
CA7
CA8
CA9
CA10
CA11
C11
C31
FROM D33
DATA
SOS
A36
DSH1
A33
DSL1
B33
DMH1
A34
DML1
B34
C13
C22
C23
C33
A1
SOS
DSH3
A33
DMH3
B33
DSL3
A34
DML3
B34
2-5
15
9-12
24,25
C12
C21
FROM D32
DATA
FROM P26
Vda_75V
C81
C71
1,2
C72
C8
C7
SOS
IC7401
78V
IC7304
IC7301
IC7302
S1
Q7411
Q7412
1/2 Vo
Q7311
Q7312
S2
Q7417
Q7418
Q7413
Q7414
Q7317
Q7318
Q7313
Q7314
S3
Q7419
Q7420
Q7415
Q7416
Q7319
Q7320
Q7315
Q7316
IC7403
IC7303



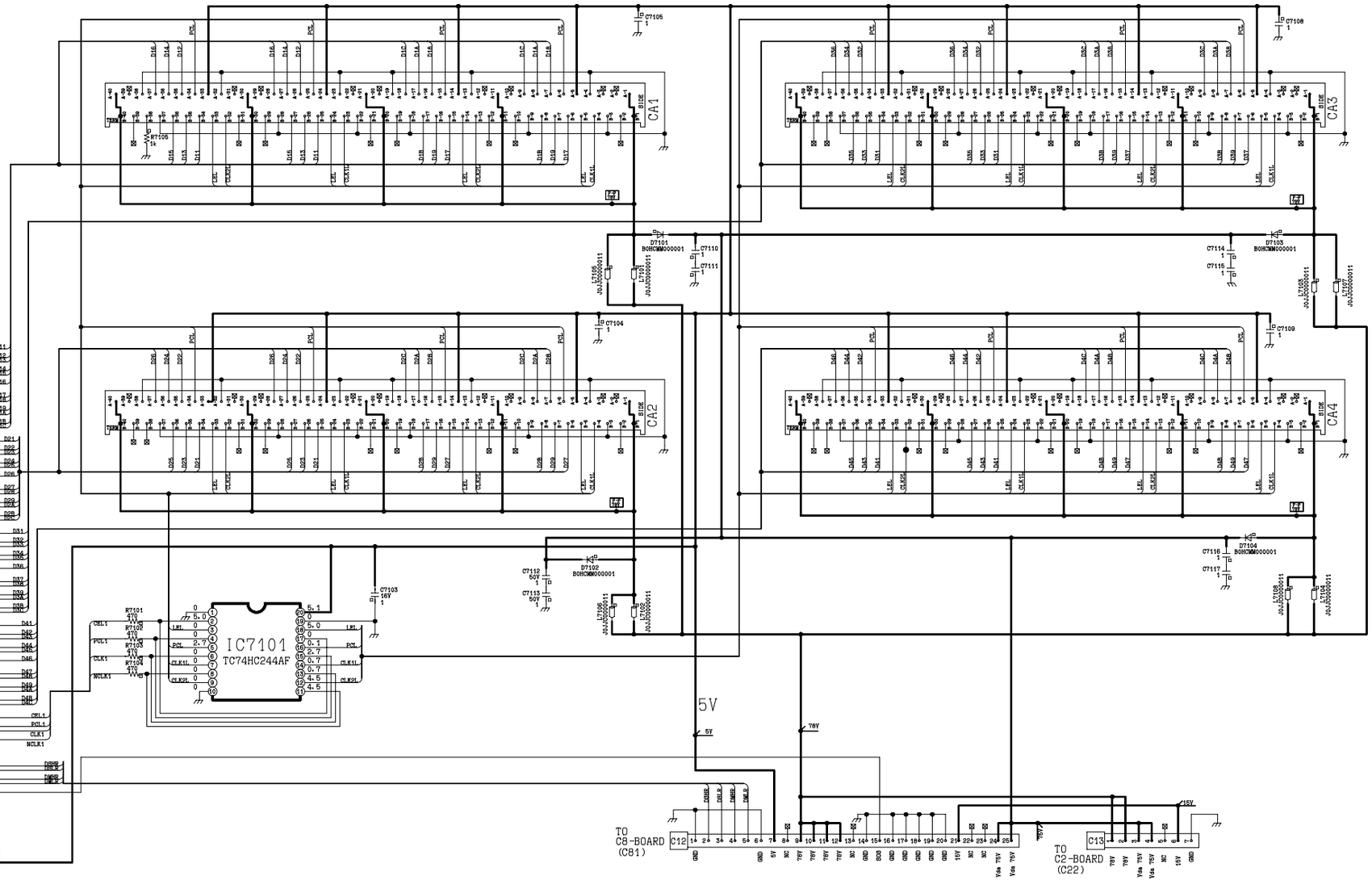

## C1-BOARD (FOIL SIDE)
## TNPA1914

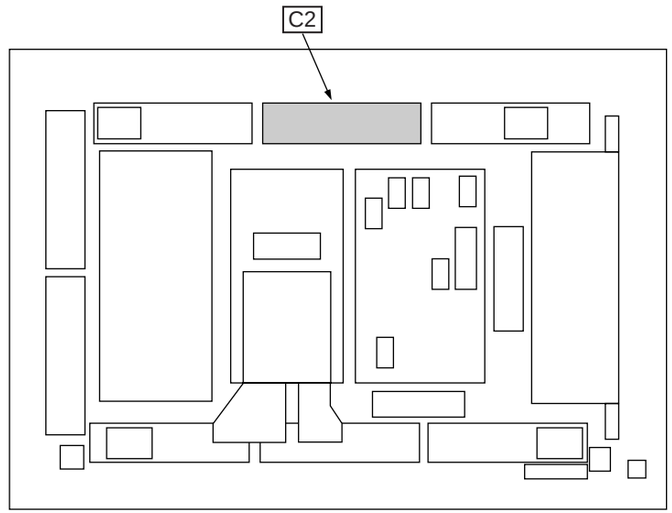



## C1-BOARD (COMPONENT SIDE)
## TNPA1914

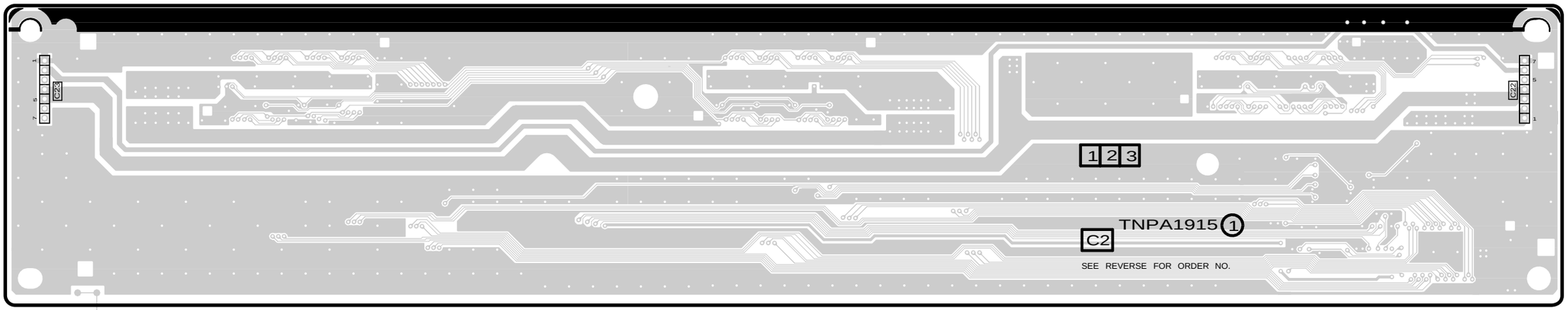


C1-BOARD TNPA1914

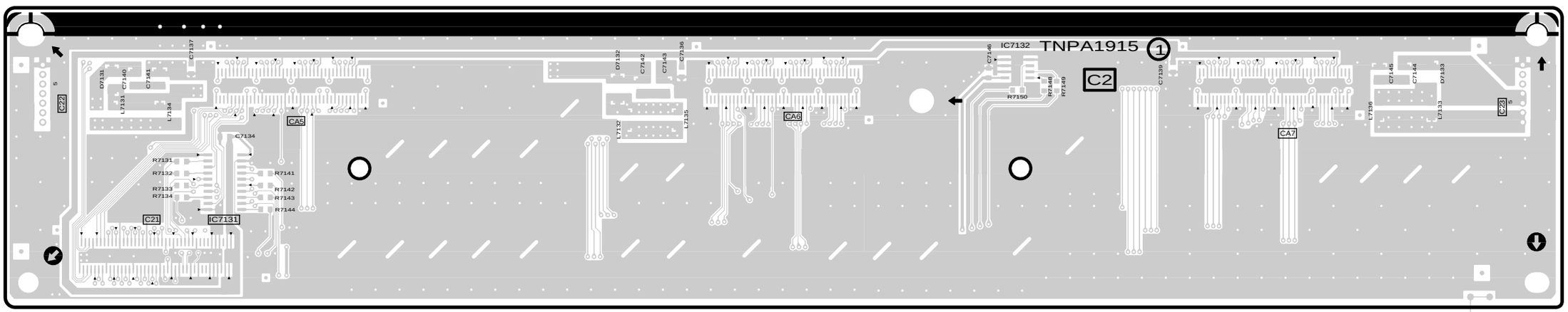




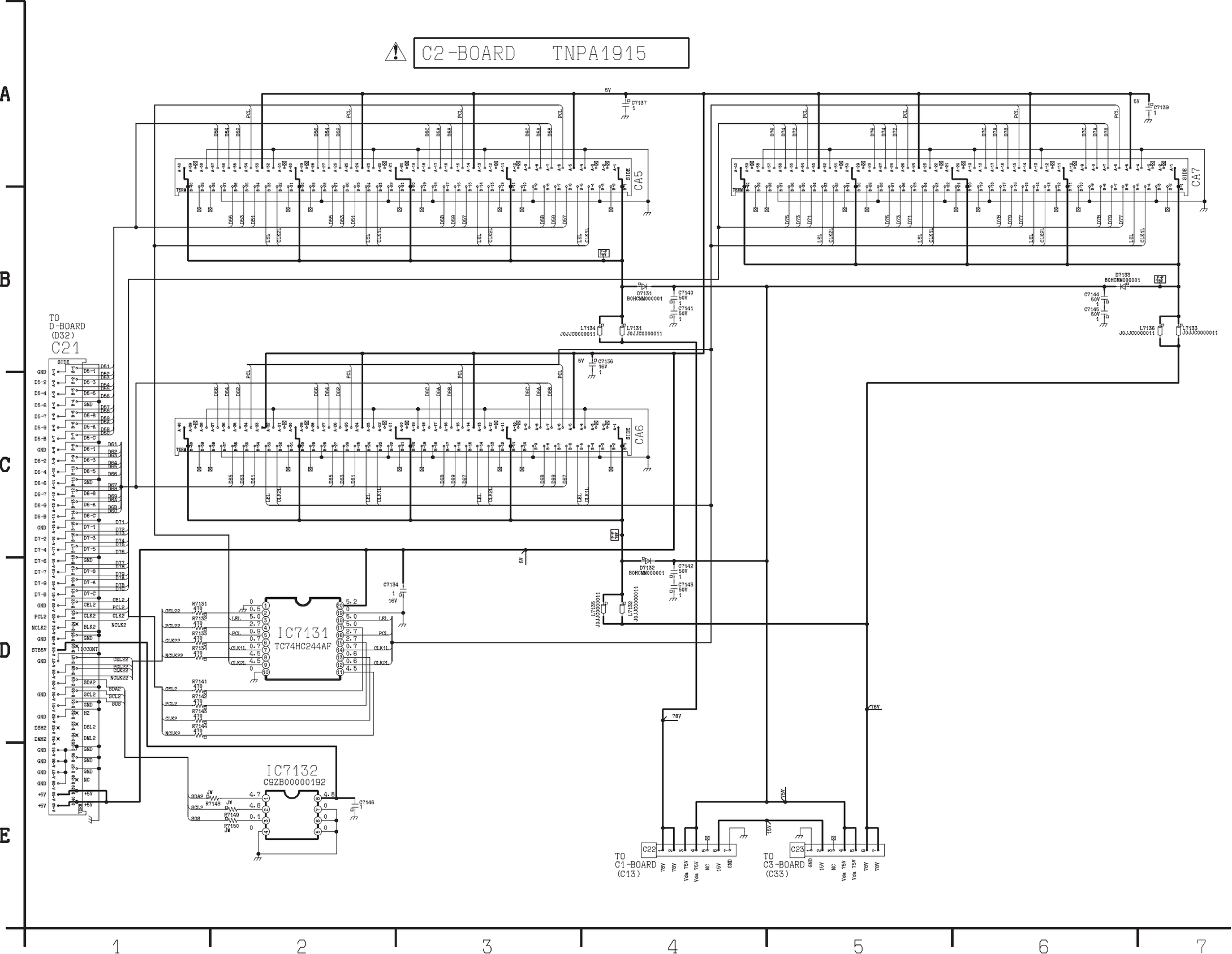

## C2-BOARD (FOIL SIDE)
## TNPA1915

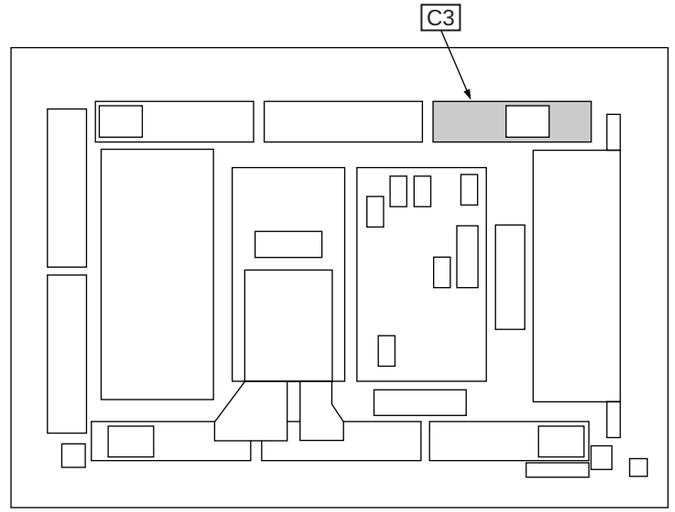



## C2-BOARD (COMPONENT SIDE)
## TNPA1915

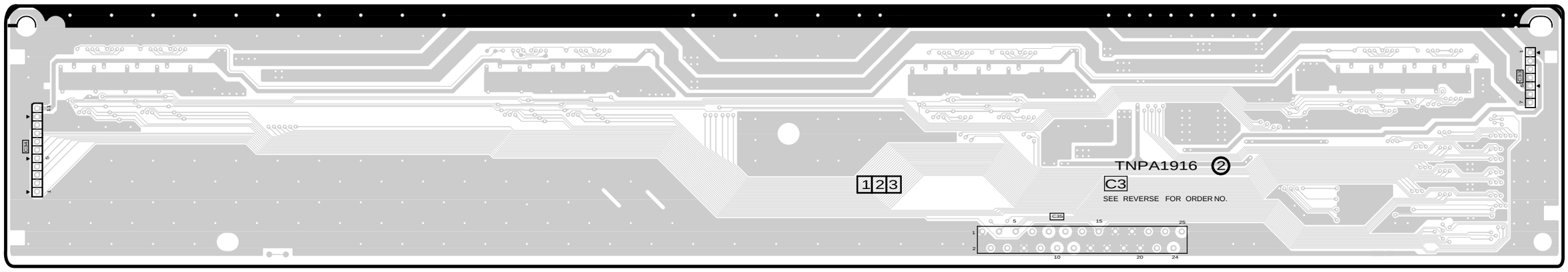


# C2-BOARD TNPA1915

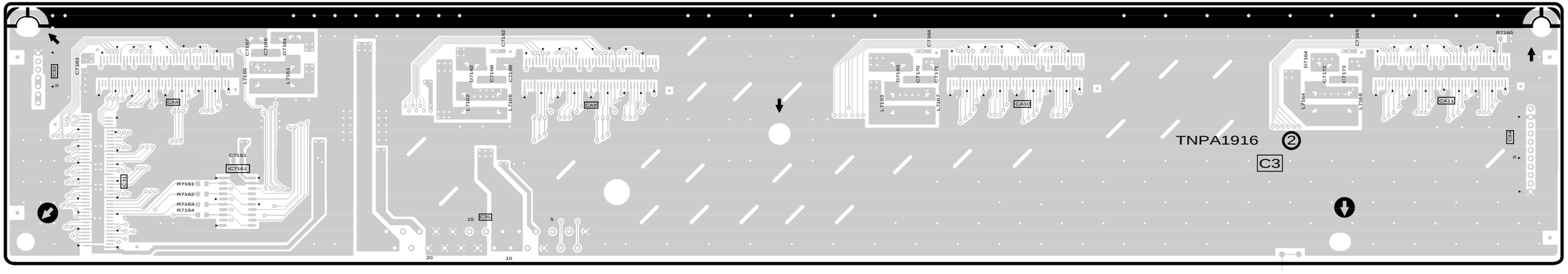


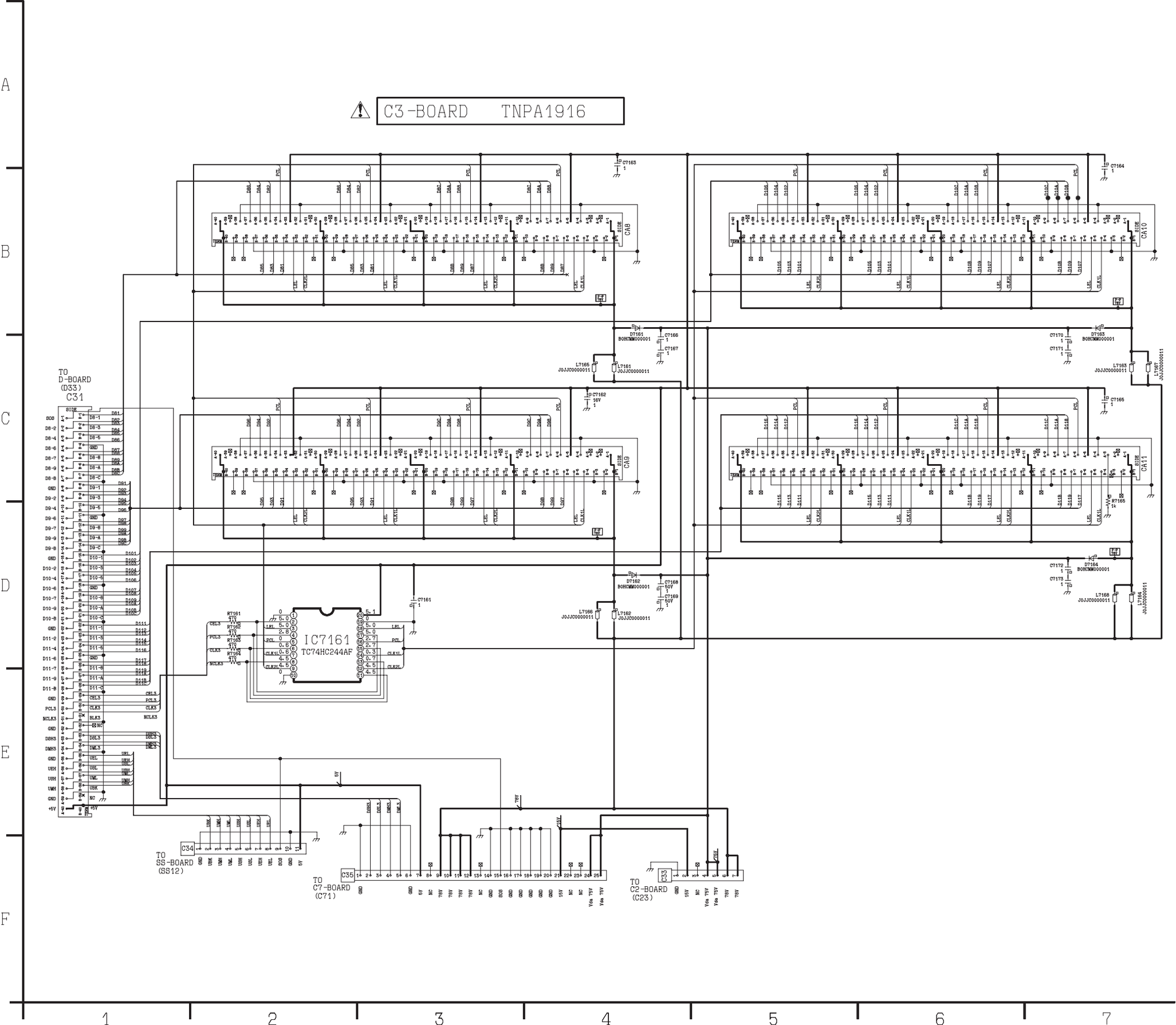


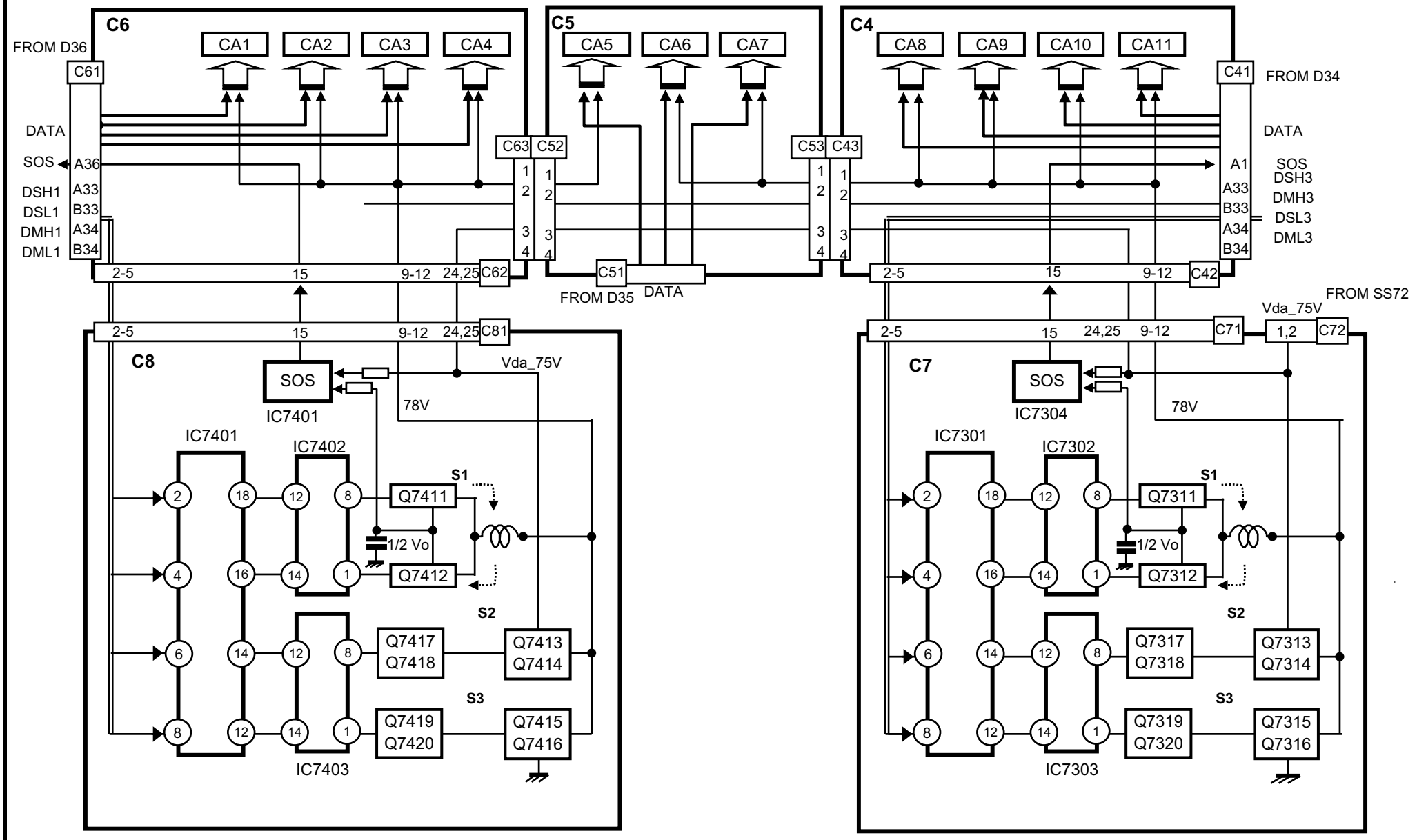

**C3-BOARD (FOIL SIDE)**
**TNPA1916**

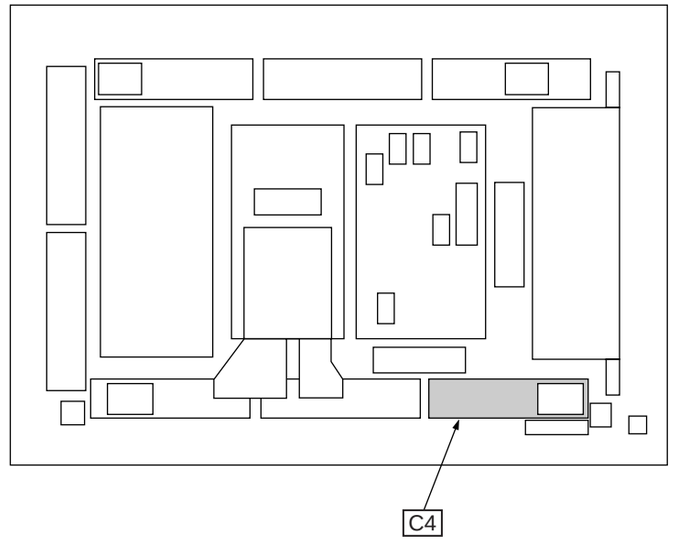



**C3-BOARD (COMPONENT SIDE)**
**TNPA1916**

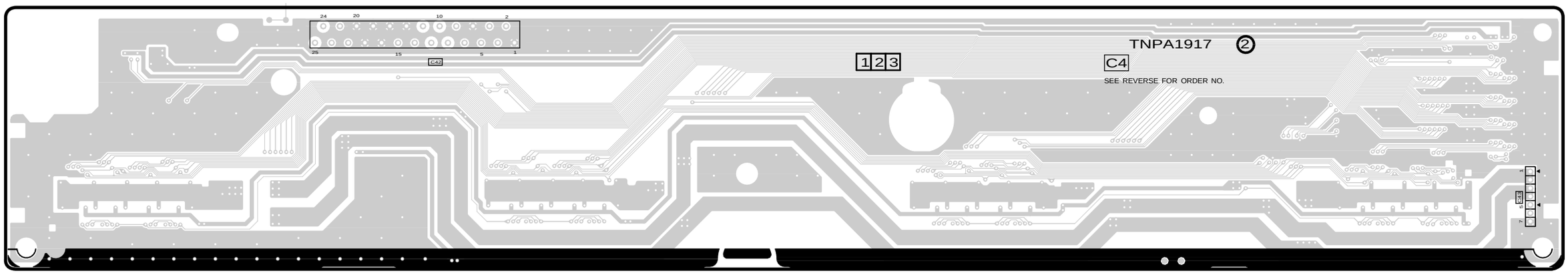



C3-BOARD TNPA1916
TO D-BOARD (D33) C31
IC7161 TC74HC244AF
TO SS-BOARD (SS12)
TO C7-BOARD (C71)
TO C2-BOARD (C23)

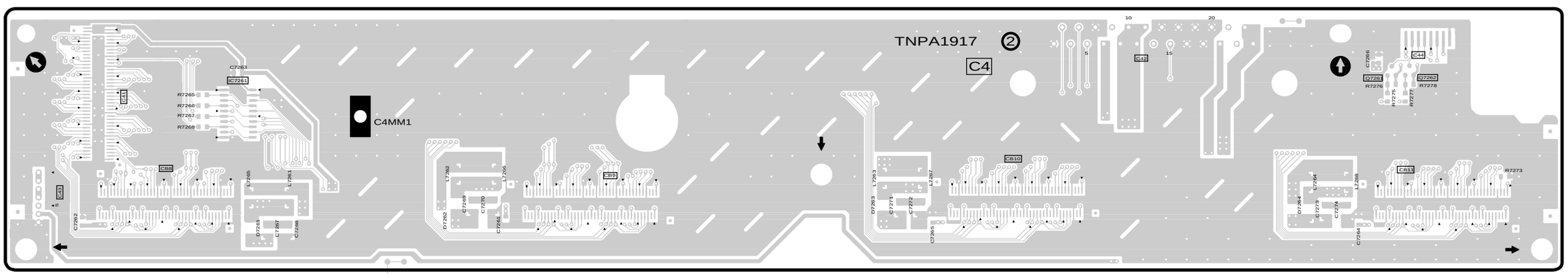

C6
C5
C4
FROM D36
C61
CA1
CA2
CA3
CA4
CA5
CA6
CA7
CA8
CA9
CA10
CA11
C41
FROM D34
DATA
SOS
A36
DSH1
A33
DSL1
B33
DMH1
A34
DML1
B34
C63
C52
C53
C43
1
2
3
4
A1
DSH3
DMH3
DSL3
DML3
2-5
15
9-12
24,25
C62
C51
C42
FROM D35
DATA
FROM SS72
Vda_75V
C81
C71
1,2
C72
C8
C7
SOS
IC7401
IC7304
78V
Vda_75V
IC7401
IC7402
IC7301
IC7302
S1
Q7411
Q7412
Q7311
Q7312
1/2 Vo
S2
Q7417
Q7418
Q7413
Q7414
Q7317
Q7318
Q7313
Q7314
S3
Q7419
Q7420
Q7415
Q7416
Q7319
Q7320
Q7315
Q7316
IC7403
IC7303



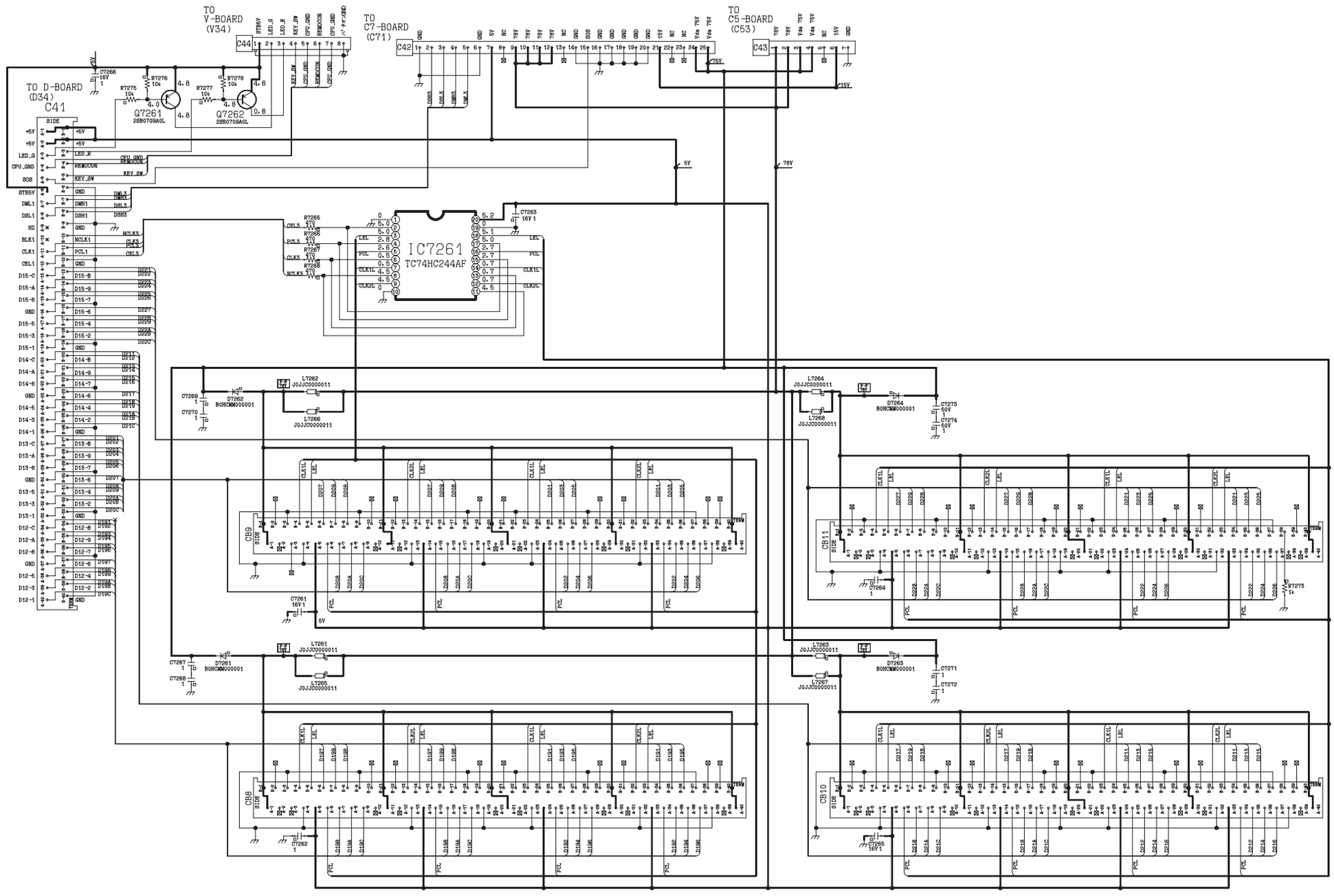

## C4-BOARD (FOIL SIDE)
## TNPA1917

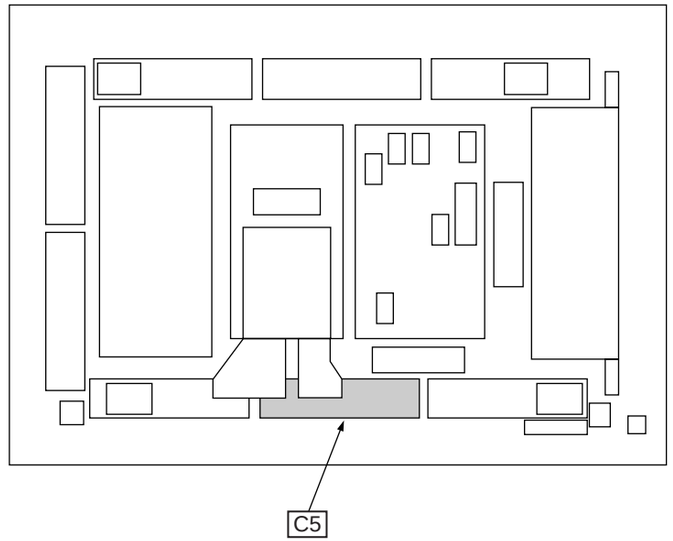



## C4-BOARD (COMPONENT SIDE)
## TNPA1917

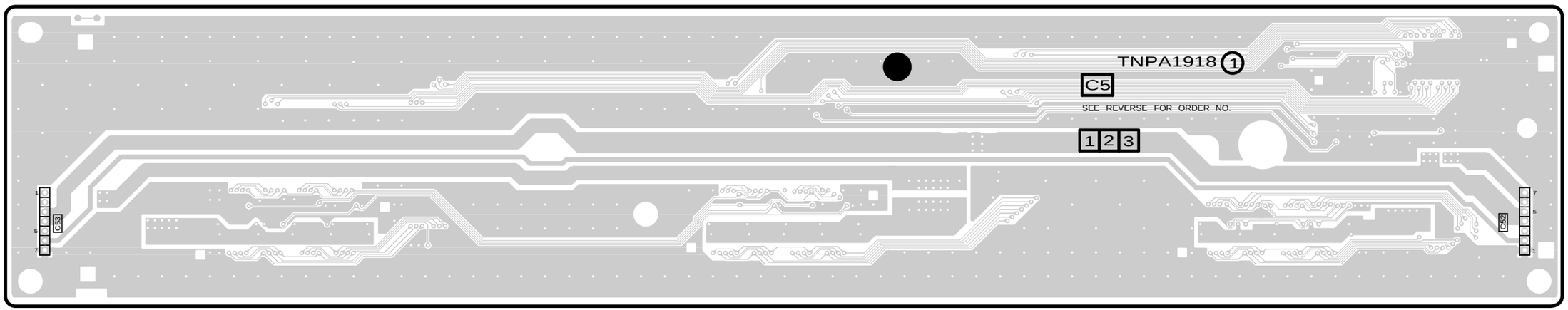


# C4-BOARD TNPA1917

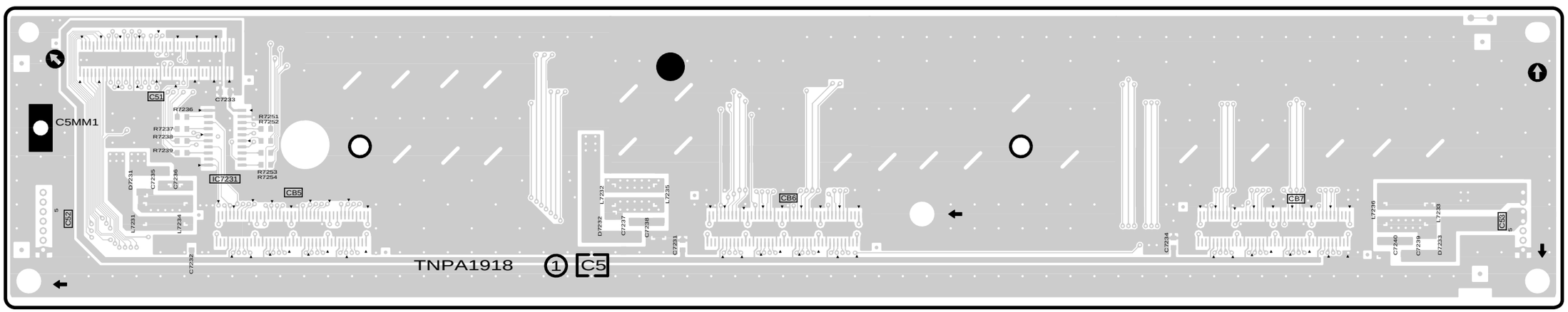


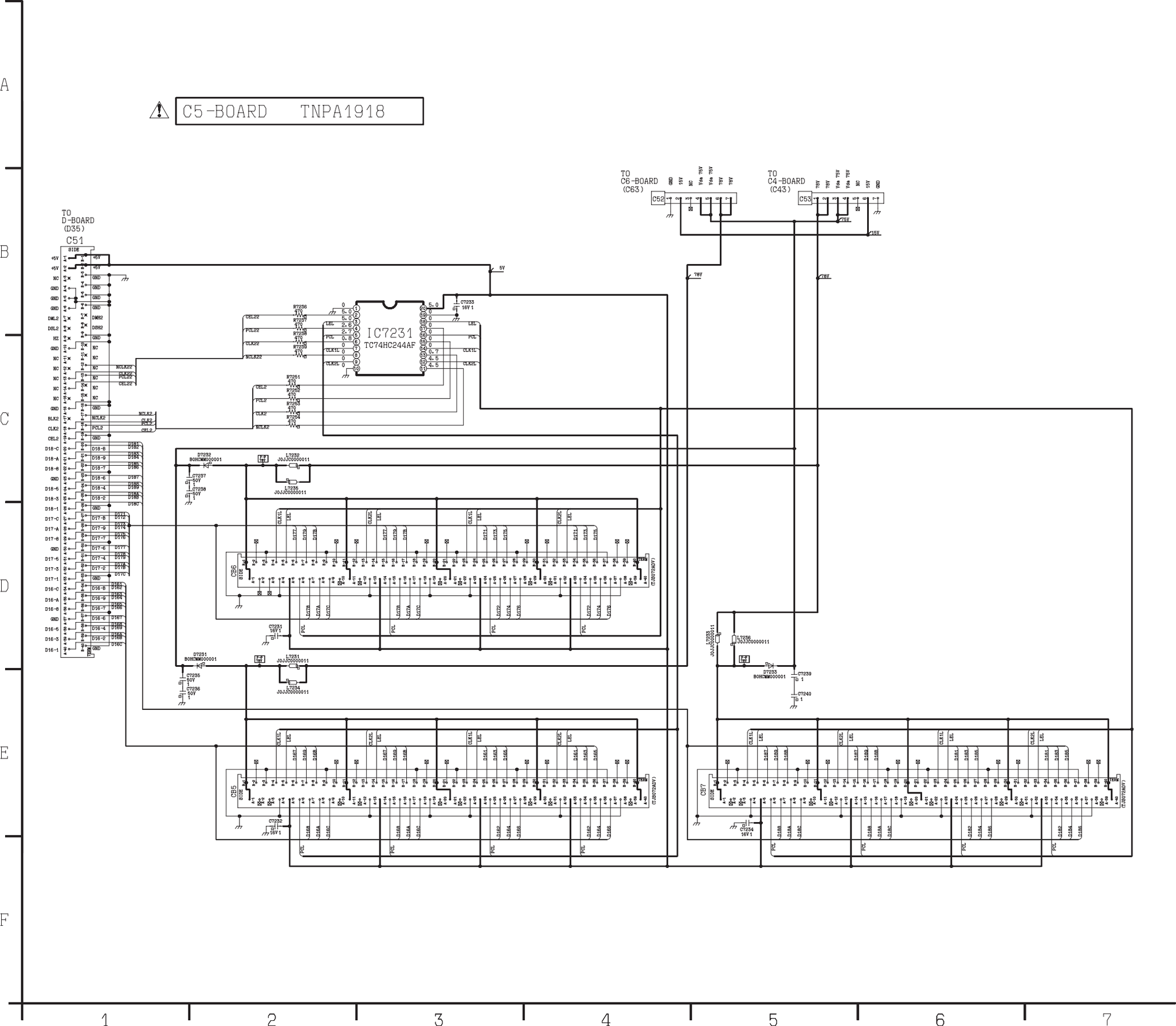


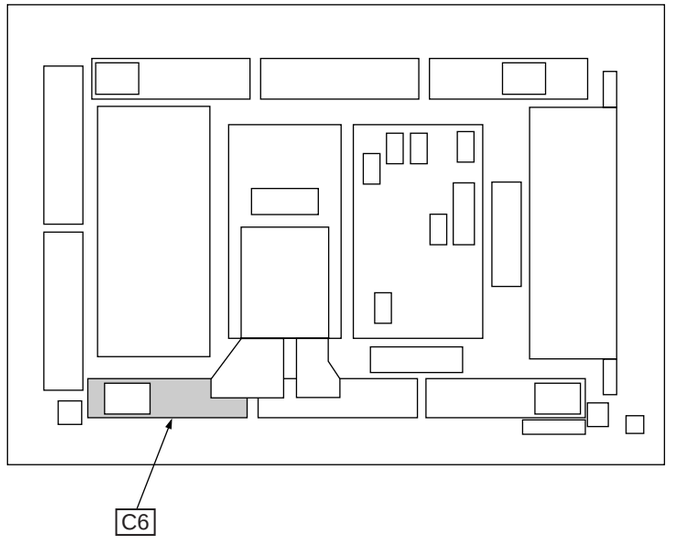

## C5-BOARD (FOIL SIDE)
## TNPA1918



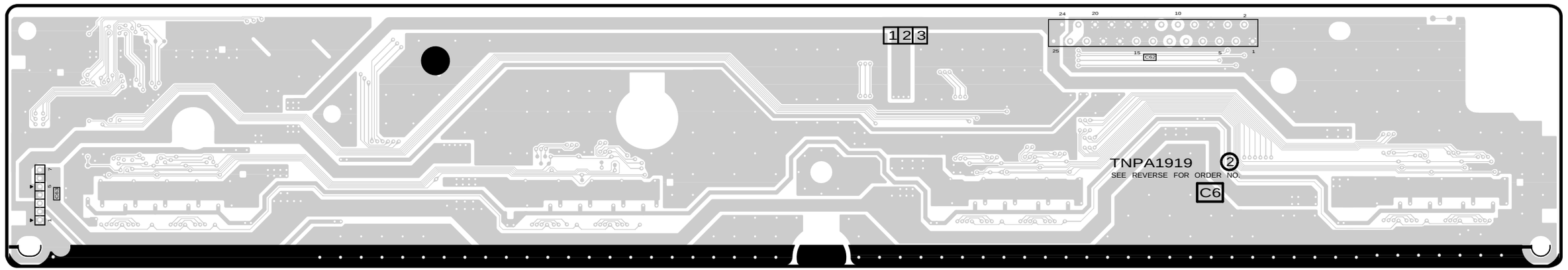

## C5-BOARD (COMPONENT SIDE)
## TNPA1918



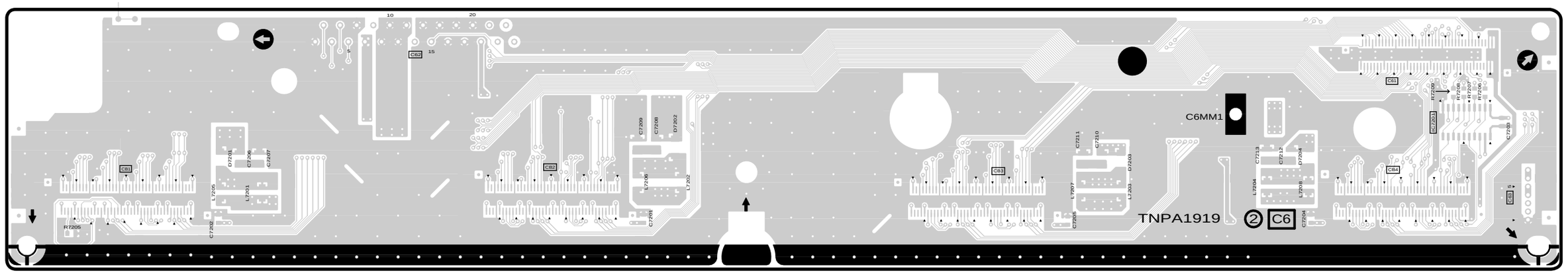

C5-BOARD TNPA1918
TO D-BOARD (D35)
C51
TO C6-BOARD (C63)
C52
TO C4-BOARD (C43)
C53
IC7231
TC74HC244AF
C56
C55
C57
D7232
D7231
D7233
L7232
L7231
L7233
L7234
L7235
L7236
C7231
C7232
C7233
C7234
C7235
C7236
C7237
C7238
C7239
C7240
5V
7.8V
15V
7.5V

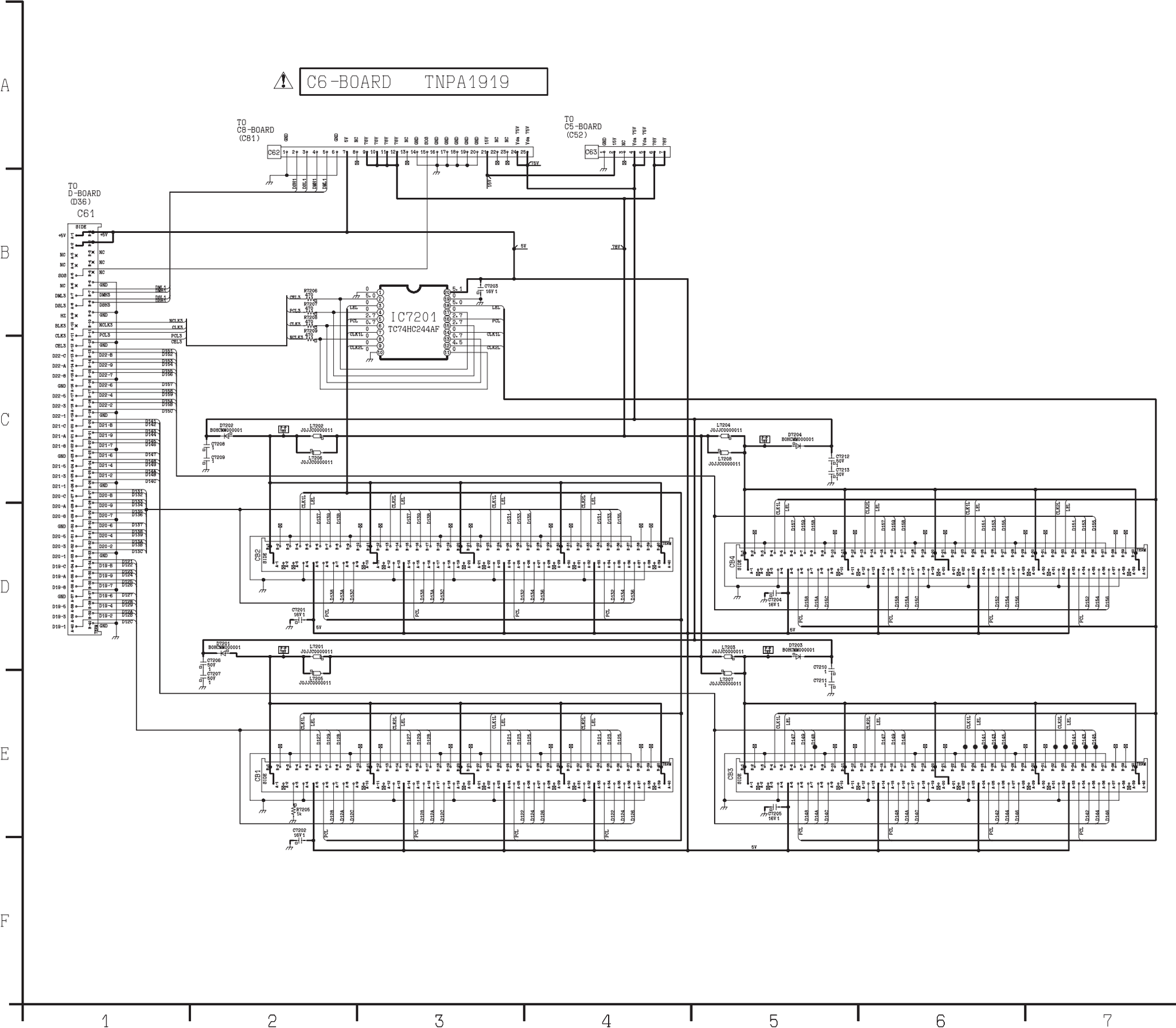



## C6-BOARD (FOIL SIDE)
## TNPA1919

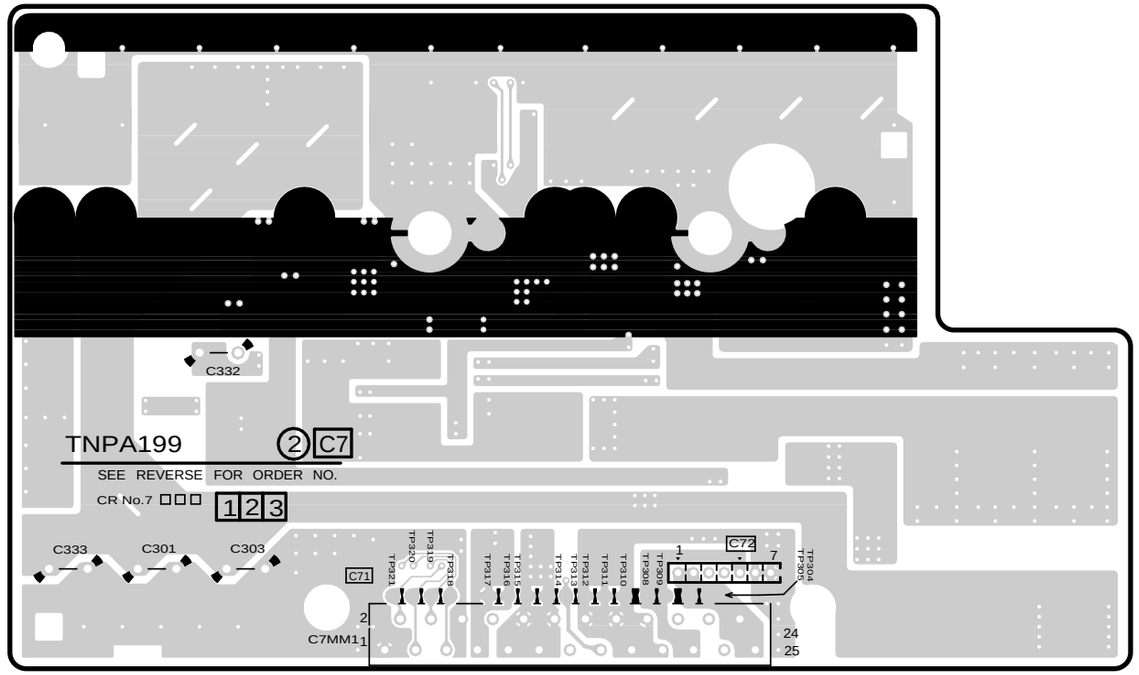


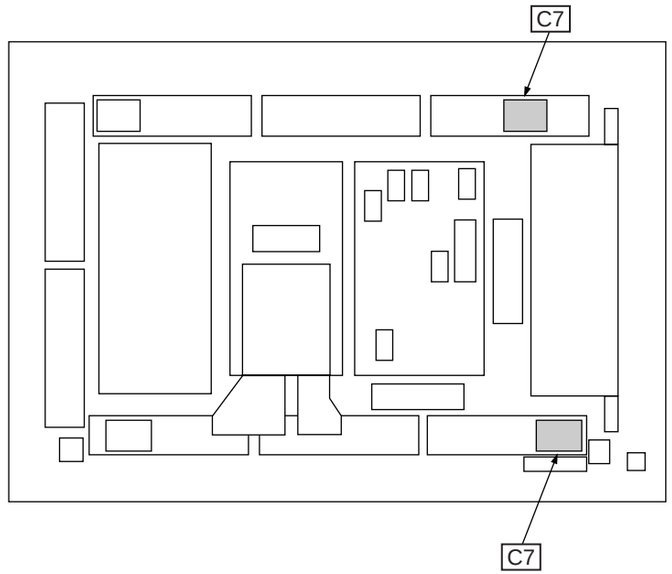

## C6-BOARD (COMPONENT SIDE)
## TNPA1919



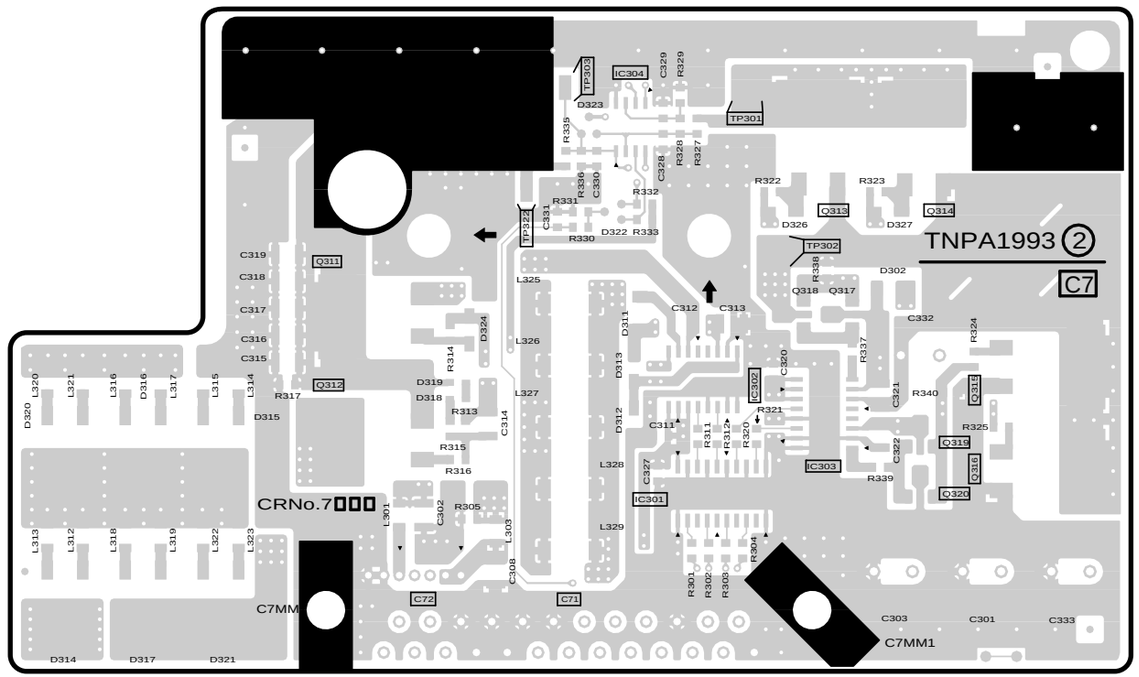

C6-BOARD TNPA1919
TO C8-BOARD (C81)
TO C5-BOARD (C52)
TO D-BOARD (D36)
C61
C62
C63
IC7201
TC74HC244AF
CB1
CB2
CB3
CB4

## C7-BOARD (FOIL SIDE)
## TNPA1993

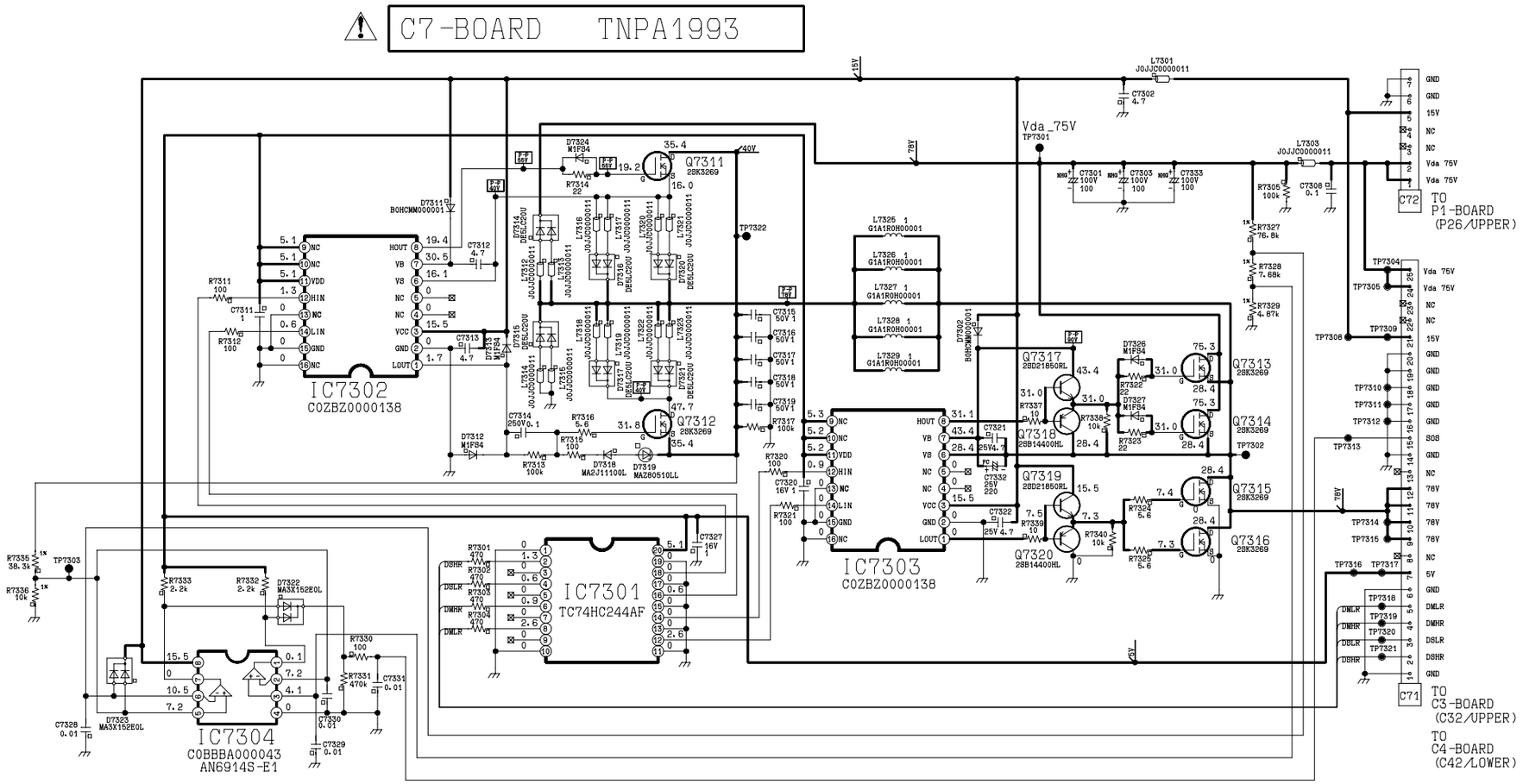


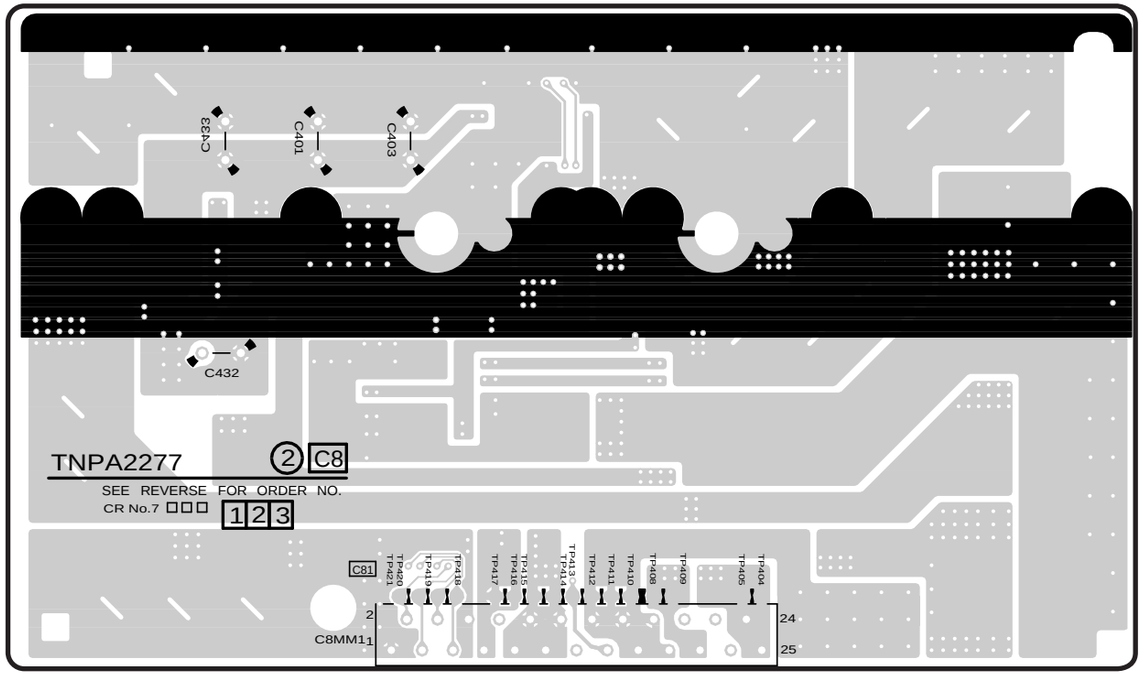

## C7-BOARD (COMPONENT SIDE)
## TNPA1993

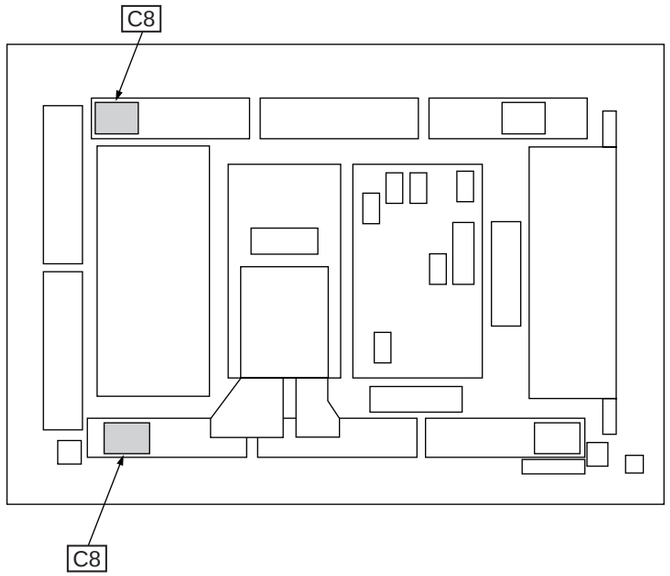


# C7-BOARD TNPA1993

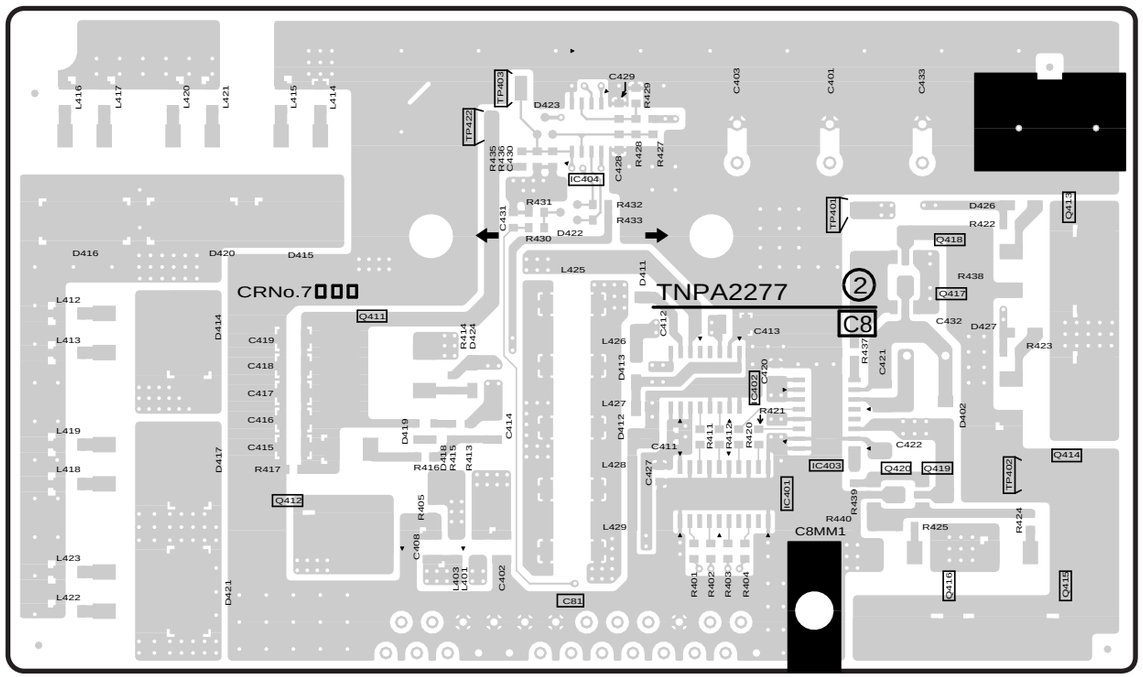


## C8-BOARD (FOIL SIDE)
## TNPA2277

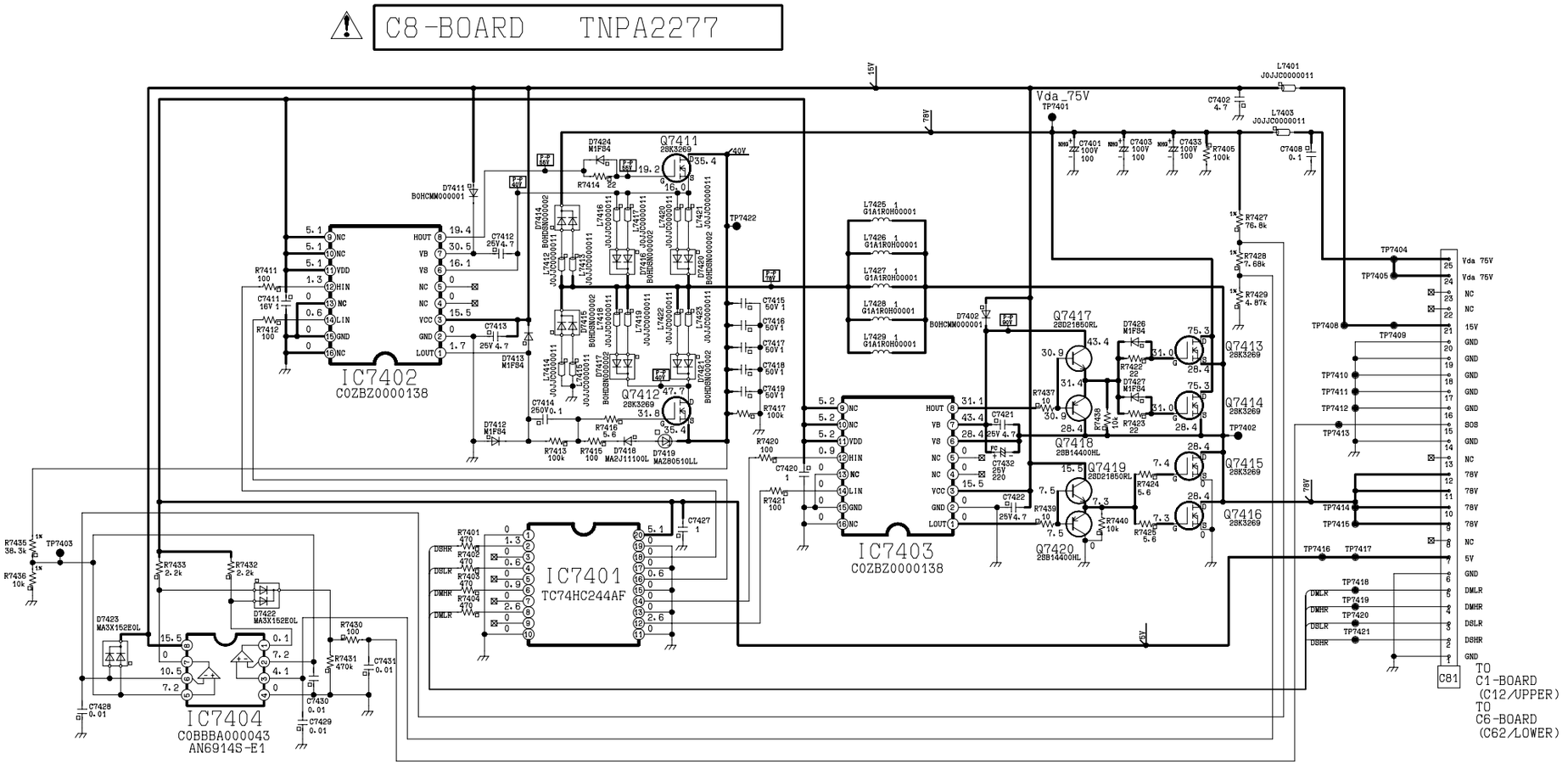


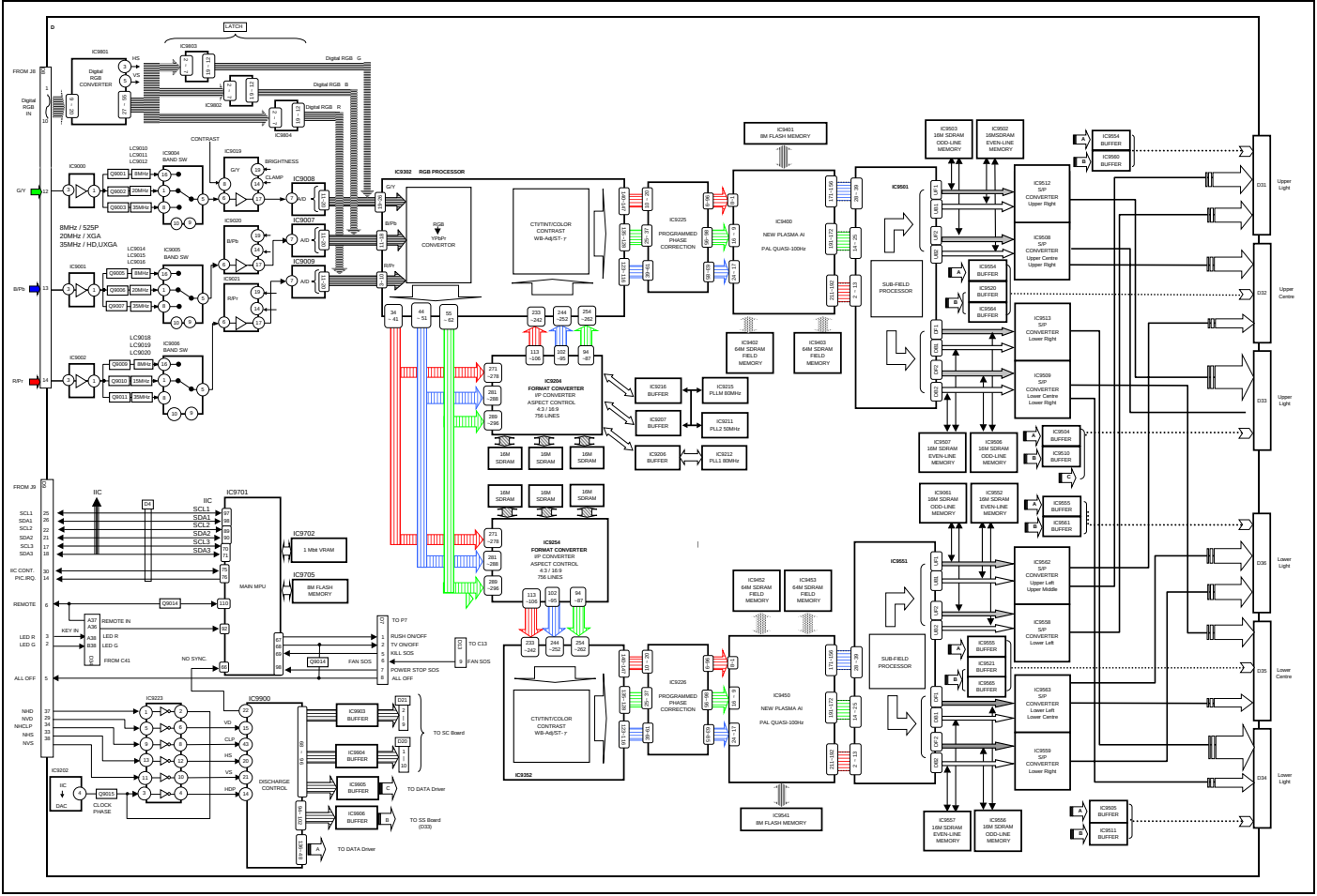




## C8-BOARD (COMPONENT SIDE)
## TNPA2277



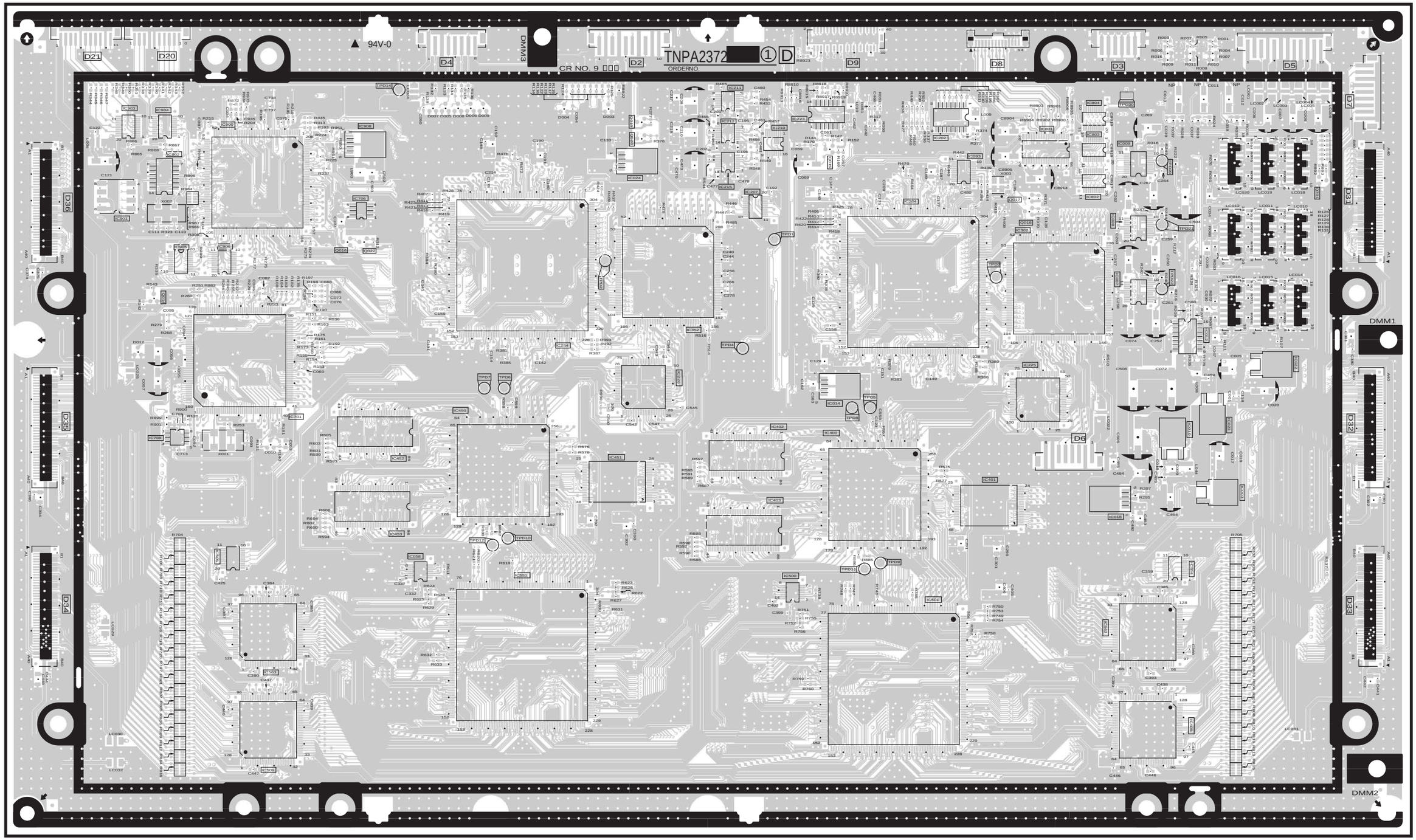
C8-BOARD TNPA2277



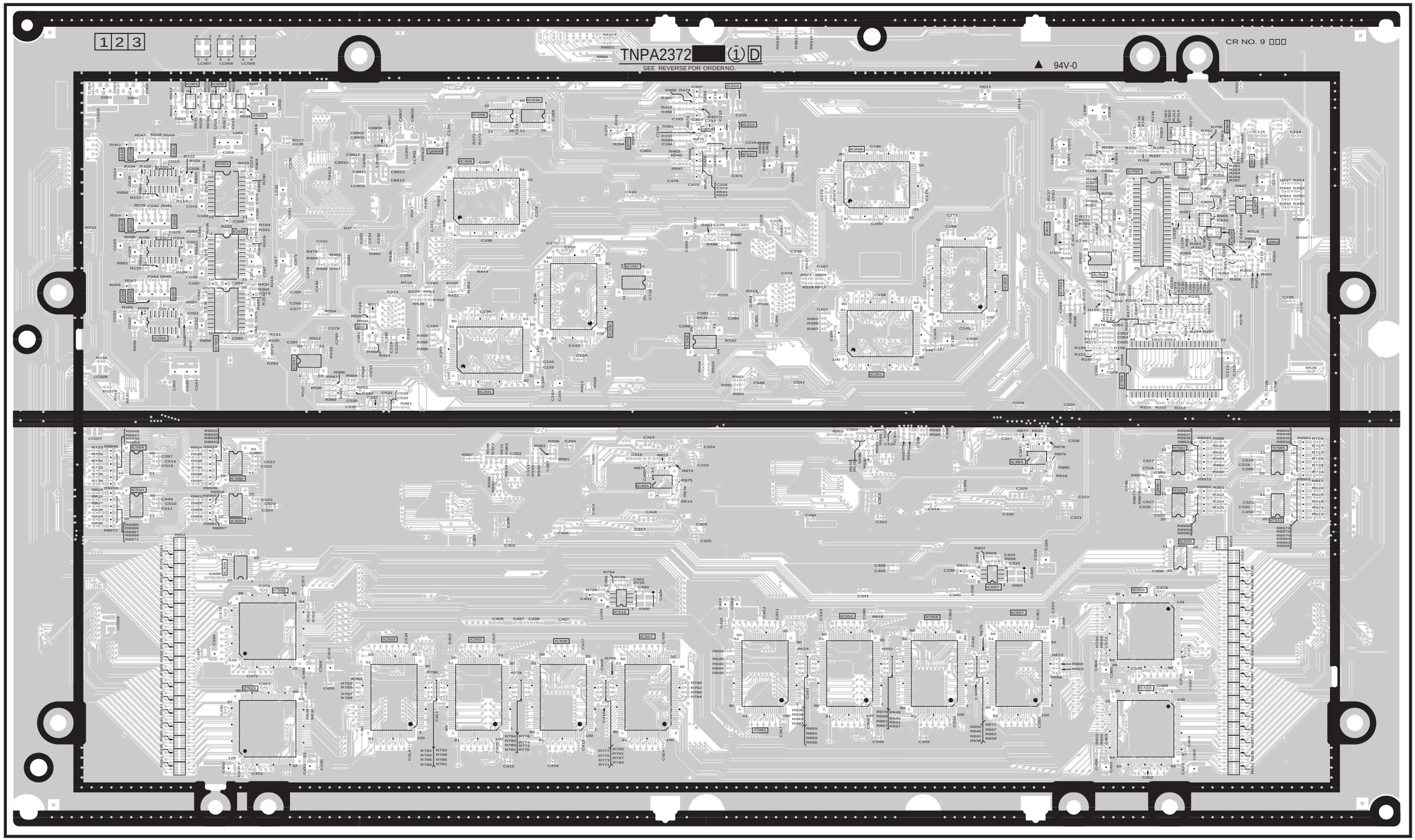

FROM J8
Digital RGB IN
G/Y
B/Pb
R/Pr
8MHz / 525P
20MHz / XGA
35MHz / HD,UXGA
CONTRAST
BRIGHTNESS
CLAMP
RGB PROCESSOR
YPbPr CONVERTOR
CTI/TINT/COLOR CONTRAST WB-Adj/ST-Y
PROGRAMMED PHASE CORRECTION
NEW PLASMA AI
PAL QUASI-100Hz
SUB-FIELD PROCESSOR
FORMAT CONVERTER
I/P CONVERTER
ASPECT CONTROL
4:3 / 16:9
756 LINES
16M SDRAM
64M SDRAM FIELD MEMORY
8M FLASH MEMORY
PLL1 80MHz
PLL2 50MHz
PLL3 60MHz
S/P CONVERTER
Upper Right
Upper Centre
Upper Left
Lower Right
Lower Centre
Lower Left
FROM J9
IIC
MAIN MPU
1 Mbit VRAM
REMOTE
KEY IN
LED R
LED G
ALL OFF
NO SYNC.
FAN C41
TO P7
RUSH ON/OFF
TV ON/OFF
KILL SOS
POWER STOP SOS
ALL OFF
FAN SOS
TO C13
TO SC Board
TO DATA Driver
TO SS Board (X03)
CLOCK PHASE
DISCHARGE CONTROL

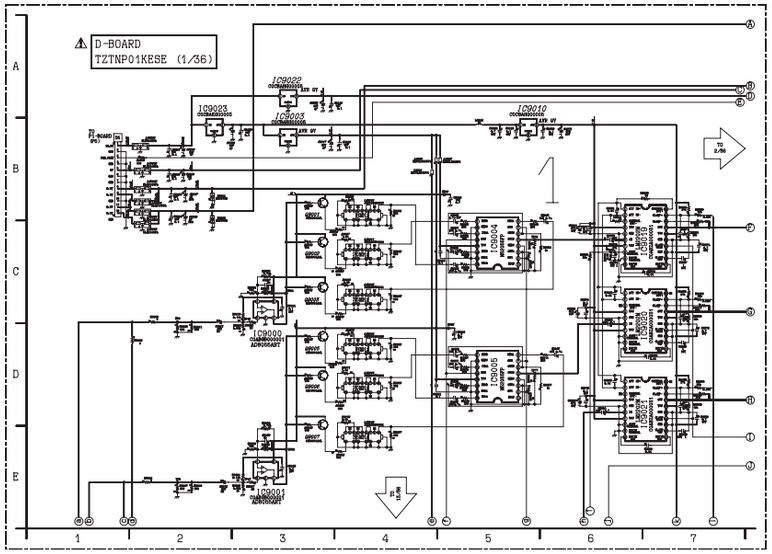
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|---|---|---|---|---|---|
| IC9000 | 1 | IC9400 | 6 | IC9804 | 25 |
| IC9001 | 1 | IC9401 | 6 | IC9900 | 2 |
| IC9002 | 13 | IC9402 | 6 | IC9901 | 3 |
| IC9003 | 1 | IC9403 | 6 | IC9902 | 3 |
| IC9004 | 1 | IC9450 | 30 | IC9903 | 3 |
| IC9005 | 1 | IC9451 | 18 | IC9904 | 3 |
| IC9006 | 13 | IC9452 | 30 | IC9905 | 3 |
| IC9007 | 2 | IC9453 | 30 | IC9906 | 15 |
| IC9008 | 2 | IC9501 | 22 | IC9907 | 3 |
| IC9009 | 2 | IC9502 | 23 | IC9908 | 2 |
| IC9010 | 1 | IC9503 | 10 | IC9909 | 2 |
| IC9012 | 13 | IC9504 | 10 | | |
| IC9014 | 16 | IC9505 | 34 | | |
| IC9018 | 2 | IC9506 | 34 | | |
| IC9019 | 1 | IC9507 | 23 | | |
| IC9020 | 1 | IC9508 | 23 | | |
| IC9021 | 1 | IC9509 | 23 | | |
| IC9022 | 1 | IC9510 | 23 | | |
| IC9023 | 1 | IC9511 | 23 | | |
| IC9024 | 16 | IC9512 | 24 | | |
| IC9036 | 16 | IC9513 | 24 | | |
| IC9047 | 5 | IC9516 | 21 | | |
| IC9048 | 17 | IC9520 | 10 | | |
| IC9057 | 19 | IC9521 | 34 | | |
| IC9061 | 7 | IC9551 | 19 | | |
| IC9093 | 4 | IC9552 | 20 | | |
| IC9200 | 3 | IC9554 | 8 | | |
| IC9201 | 3 | IC9555 | 32 | | |
| IC9202 | 15 | IC9556 | 31 | | |
| IC9204 | 4 | IC9557 | 20 | | |
| IC9206 | 16 | IC9558 | 20 | | |
| IC9207 | 4 | IC9559 | 20 | | |
| IC9209 | 4 | IC9560 | 20 | | |
| IC9210 | 16 | IC9561 | 20 | | |
| IC9211 | 4 | IC9562 | 21 | | |
| IC9212 | 16 | IC9563 | 21 | | |
| IC9213 | 4 | IC9564 | 21 | | |
| IC9214 | 16 | IC9565 | 21 | | |
| IC9215 | 4 | IC9701 | 26 | | |
| IC9217 | 4 | IC9702 | 26 | | |
| IC9223 | 15 | IC9703 | 26 | | |
| IC9225 | 5 | IC9704 | 27 | | |
| IC9226 | 29 | IC9705 | 27 | | |
| IC9250 | 27 | IC9706 | 26 | | |
| IC9251 | 27 | IC9707 | 27 | | |
| IC9254 | 28 | IC9708 | 26 | | |
| IC9259 | 28 | IC9801 | 25 | | |
| IC9302 | 5 | IC9802 | 25 | | |
| IC9352 | 29 | IC9803 | 25 | | |

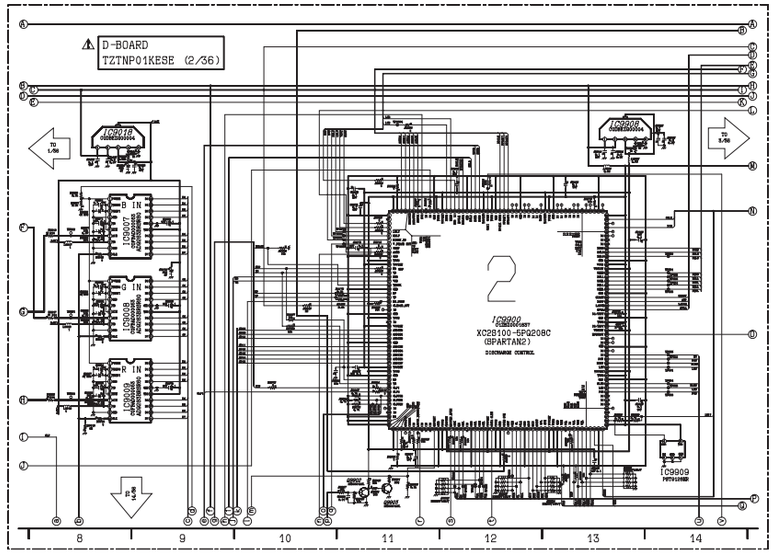
## D-BOARD (COMPONENT SIDE)
## TNPA2372

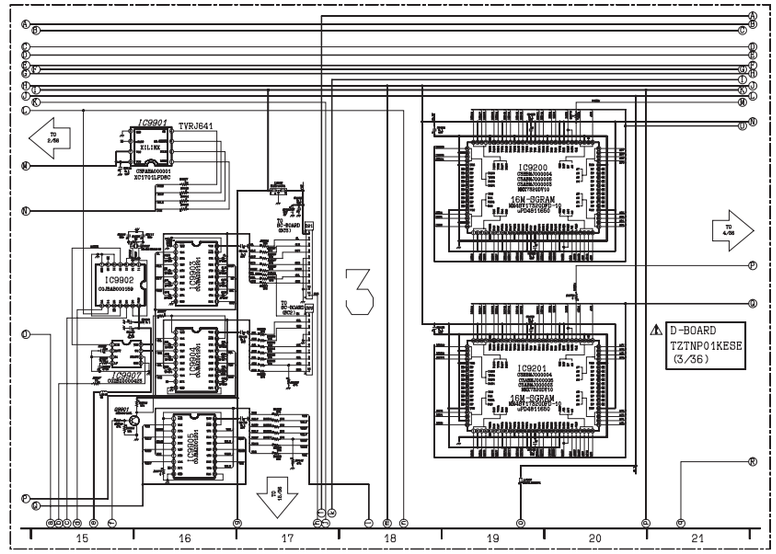


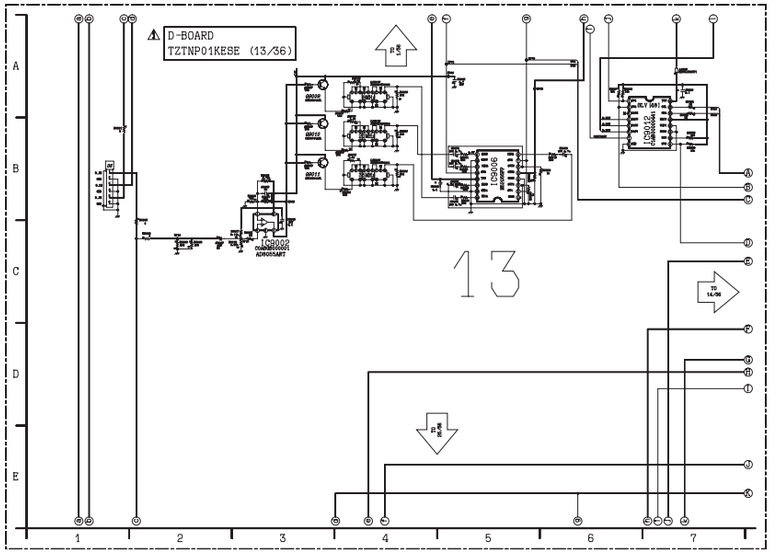
**D-BOARD (FOIL SIDE)**
**TNPA2372**

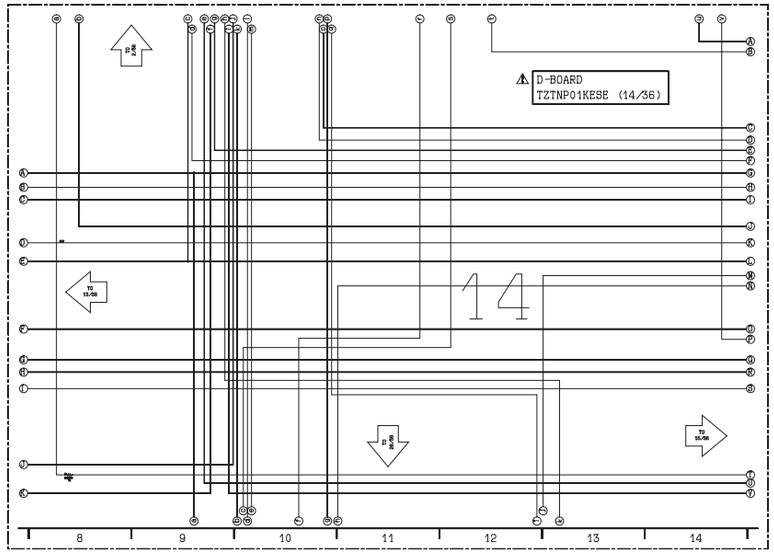


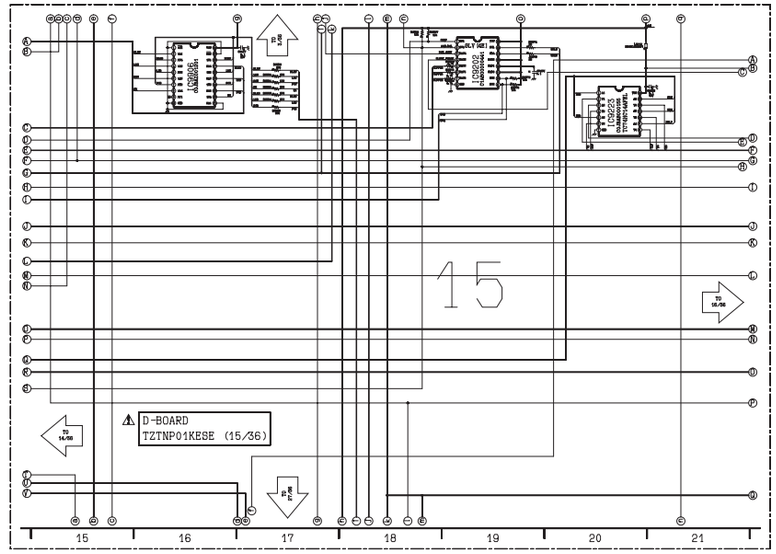

D-BOARD
TZTNP01KESE (1/36)
1
TO 2/36

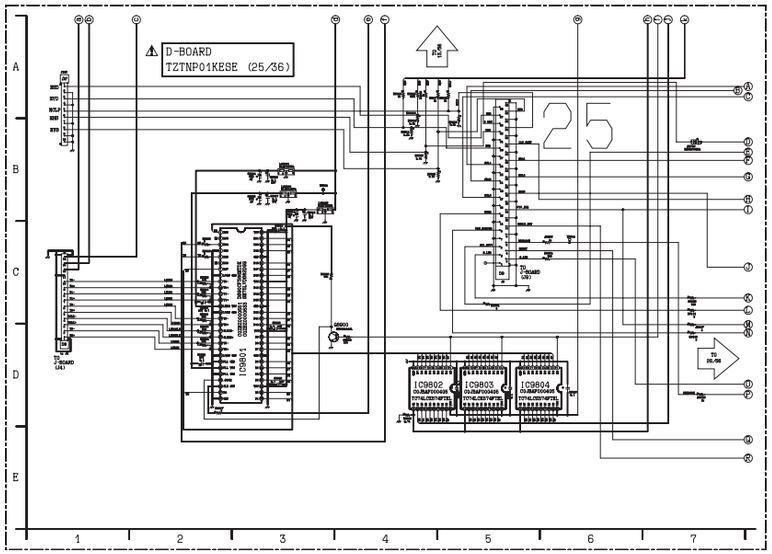

D-BOARD
TZTNP01KESE (2/36)
2
IC9900
XC2S100-6PQ208C
(SPARTAN2)
FPGA/MASK CONTROL
TO 1/36
TO 3/36
TO 4/36

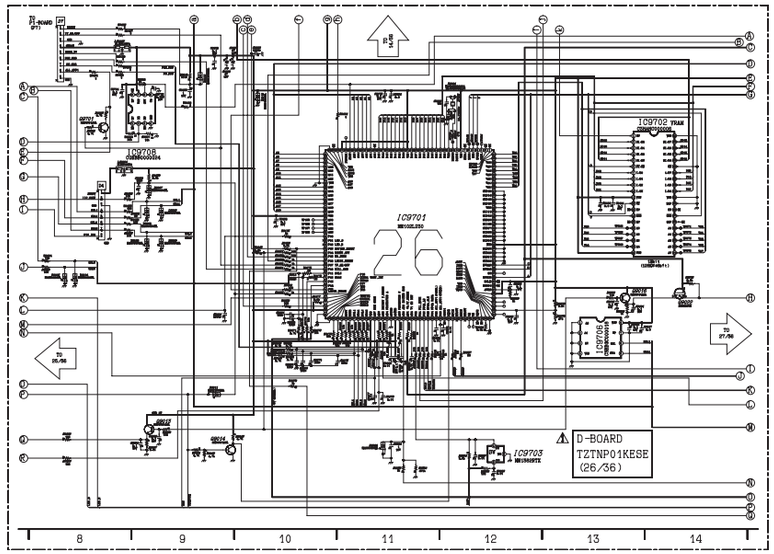

D-BOARD
TZTNP01KESE (3/36)
3
IC9901
TVRJ641
IC9902
IC9903
IC9904
IC9905
IC9906
IC9907
IC9908
IC9909
IC9910
IC9911
IC9912
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IC9996
IC9997
IC9998
IC9999
TO 2/36
TO 4/36

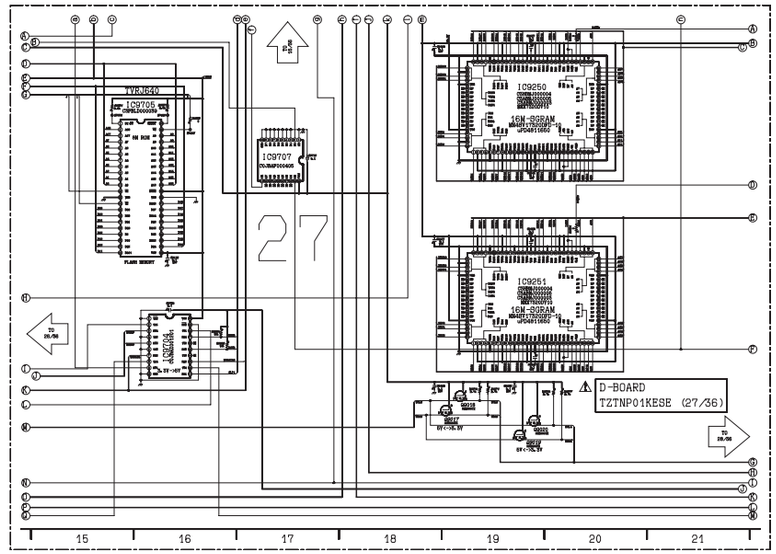

D-BOARD
TZTNP01KESE (13/36)
13
TO 14/36
TO 12/36

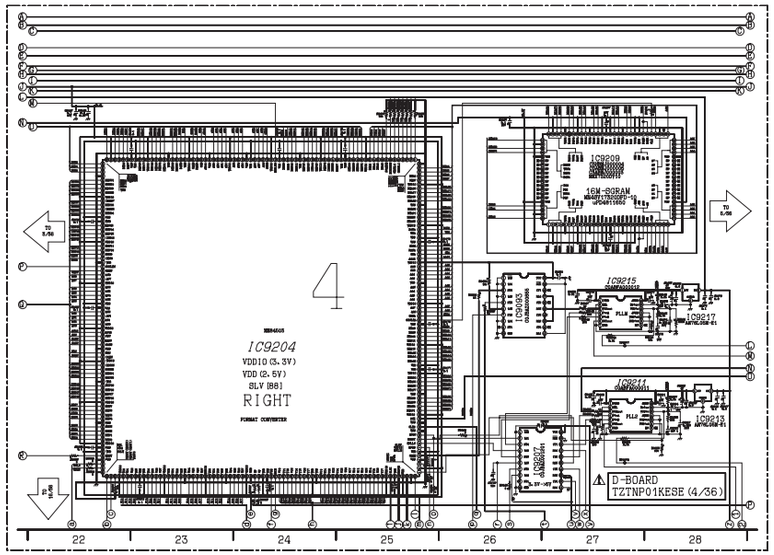

D-BOARD
TZTNP01KESE (14/36)
14
TO 13/36
TO 15/36
TO 12/36

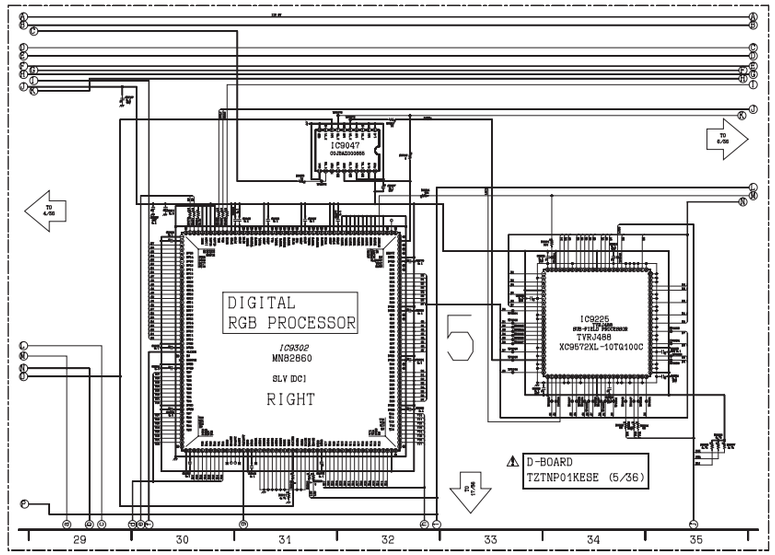

D-BOARD
TZTNP01KESE (15/36)
15
TO 14/36
TO 16/36

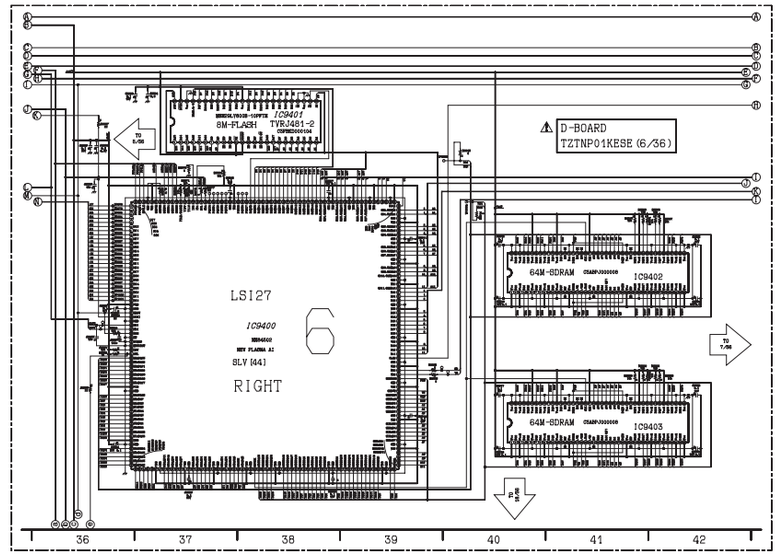

D-BOARD
TZTNP01KESE (25/36)
25
TO 26/36
TO 24/36
IC9801
IC9802
IC9803
IC9804

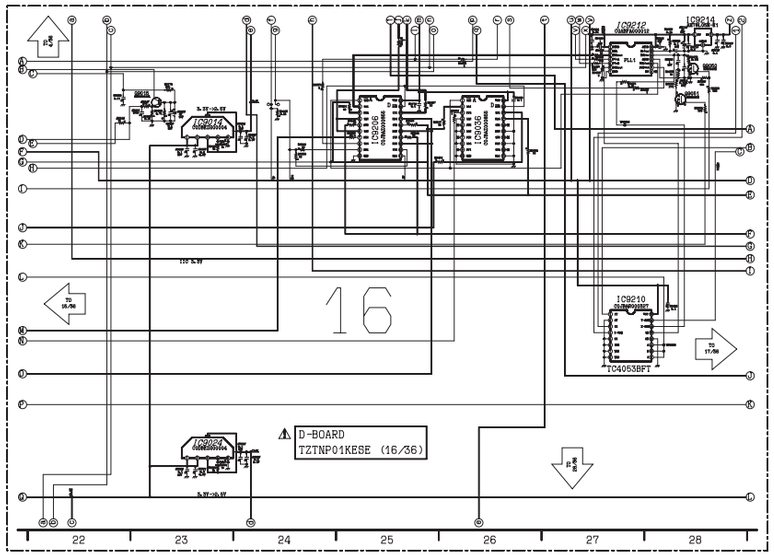

D-BOARD
TZTNP01KESE (26/36)
26
IC9701
IC9702
IC9703
TO 25/36
TO 27/36

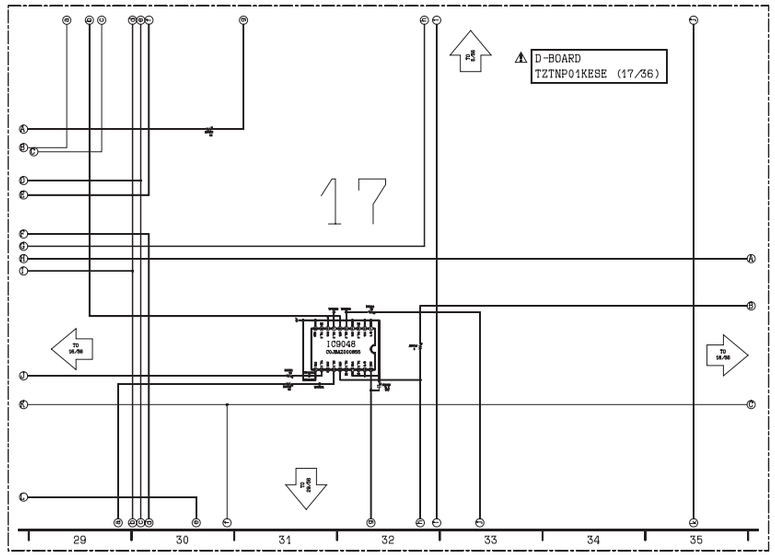

D-BOARD
TZTNP01KESE (27/36)
27
TVR3640
IC9705
IC9707
IC9250
IC9251
TO 26/36
TO 28/36

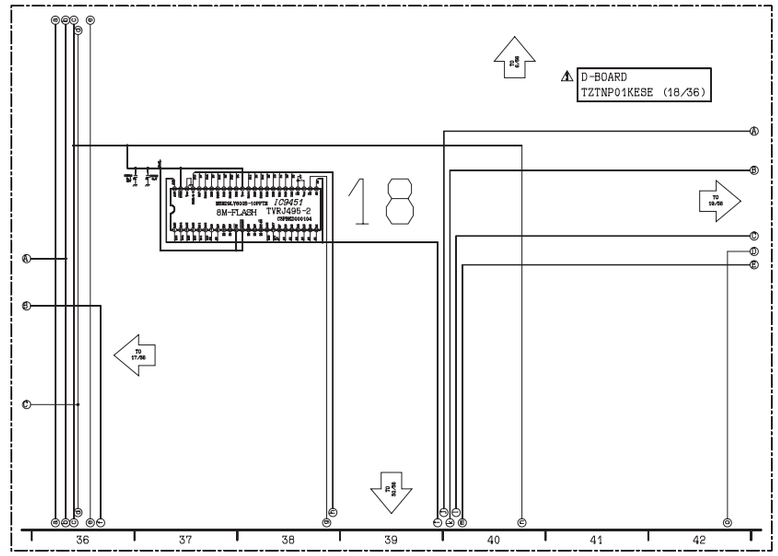

4
IC9204
VDDIO (3.3V)
VDD (2.5V)
SLV [B8]
RIGHT
FORMAT CONVERTER
IC9209
16M-SDRAM
IC9215
IC9217
IC9214
IC9213
D-BOARD
TZTNP01KESE (4/36)
22
23
24
25
26
27
28

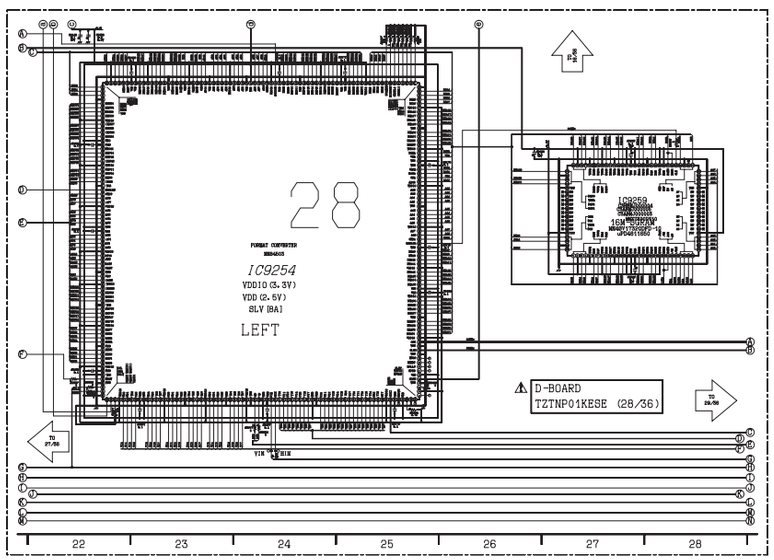

IC9047
DIGITAL
RGB PROCESSOR
IC9302
MN82860
SLV [DC]
RIGHT
5
IC9225
TVRJ488
XC9572XL-10TQ100C
D-BOARD
TZTNP01KESE (5/36)
29
30
31
32
33
34
35

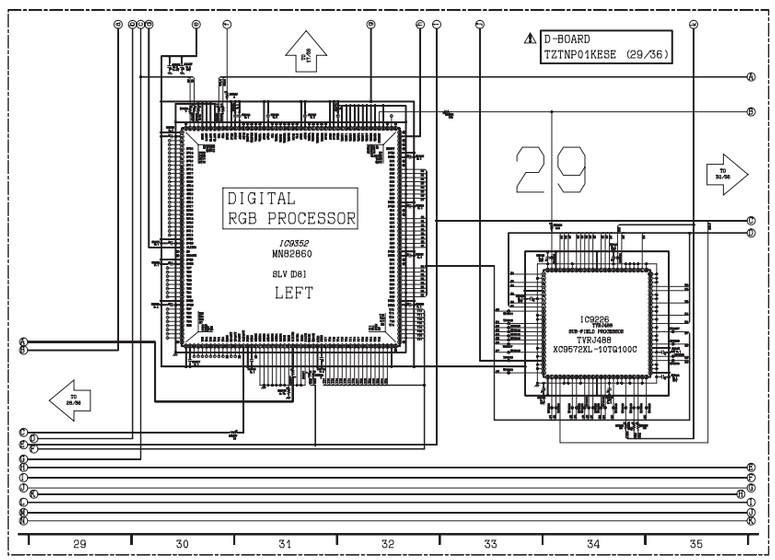

IC9401
8M-FLASH
TVRJ481-2
D-BOARD
TZTNP01KESE (6/36)
LSI27
IC9400
SLV [44]
RIGHT
6
64M-SDRAM
IC9402
64M-SDRAM
IC9403
36
37
38
39
40
41
42

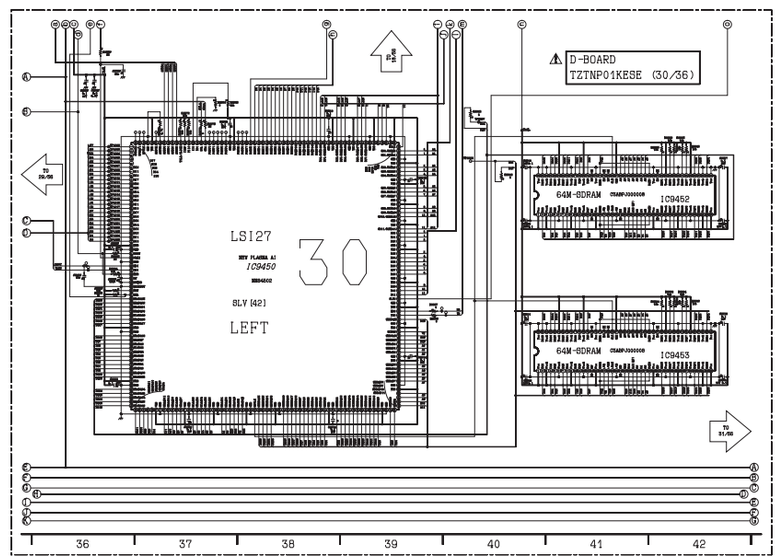

IC9212
IC9214
IC9211
IC9213
IC9210
TC4053BFT
16
IC9224
D-BOARD
TZTNP01KESE (16/36)
22
23
24
25
26
27
28

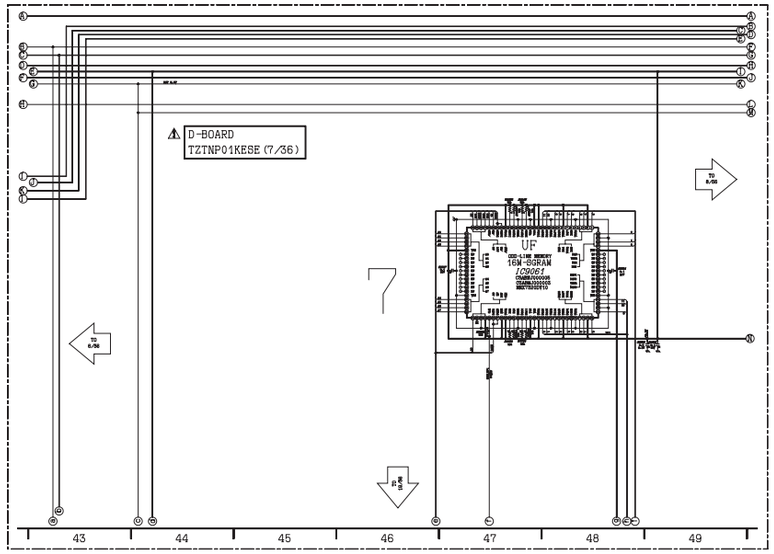

17
D-BOARD
TZTNP01KESE (17/36)
IC9046
29
30
31
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33
34
35

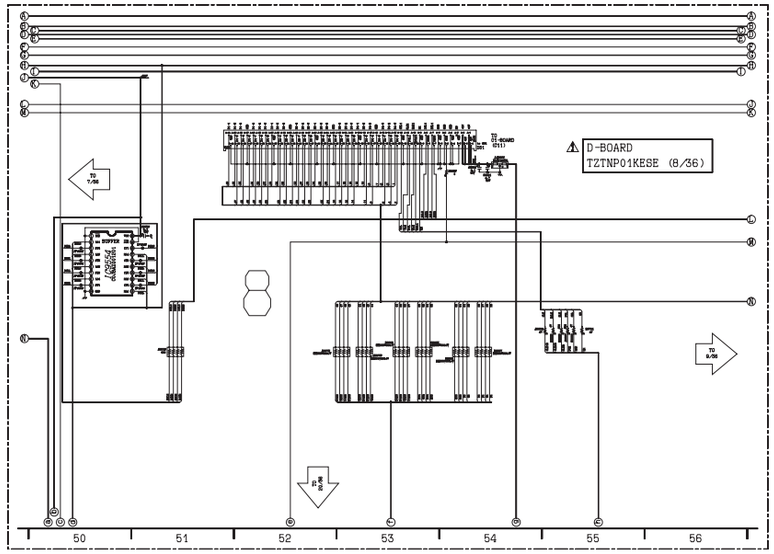

D-BOARD
TZTNP01KESE (18/36)
IC9451
8M-FLASH
TVRJ495-2
18
36
37
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39
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41
42

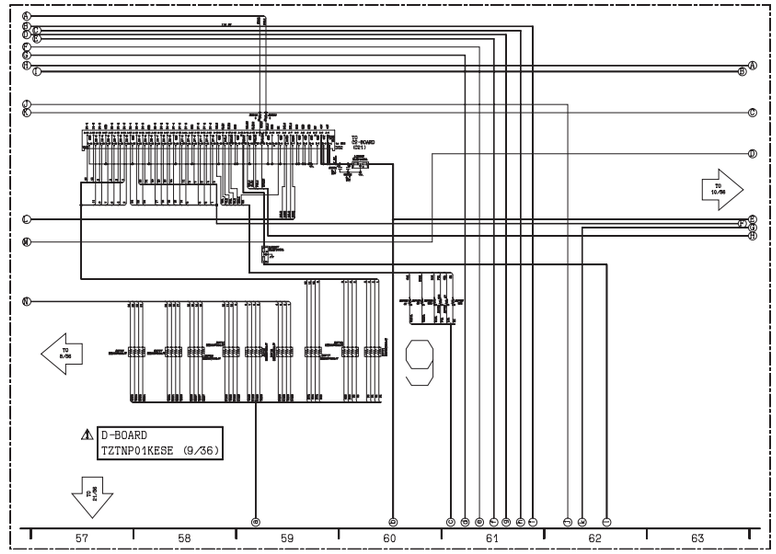

28
IC9254
VDDIO (3.3V)
VDD (2.5V)
SLV [BA]
LEFT
IC9255
16M-SDRAM
D-BOARD
TZTNP01KESE (28/36)
22
23
24
25
26
27
28

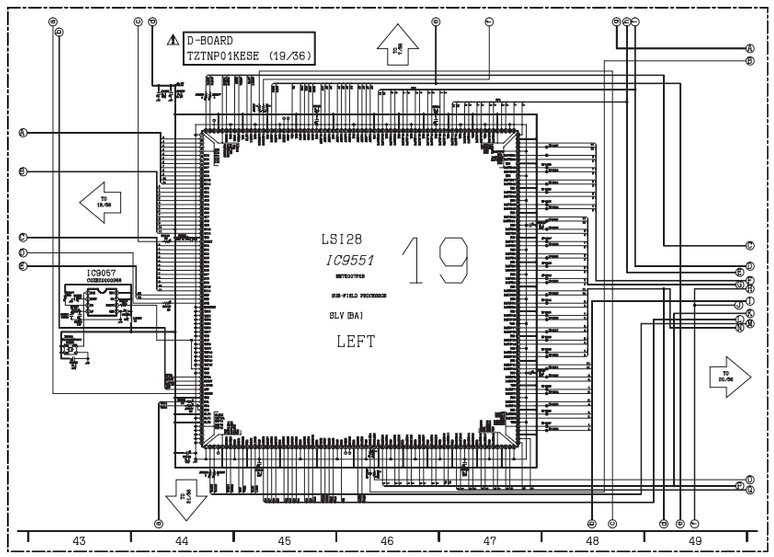

D-BOARD
TZTNP01KESE (29/36)
DIGITAL
RGB PROCESSOR
IC9352
MN82860
SLV [D8]
LEFT
29
IC9226
TVRJ488
XC9572XL-10TQ100C
30
31
32
33
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35

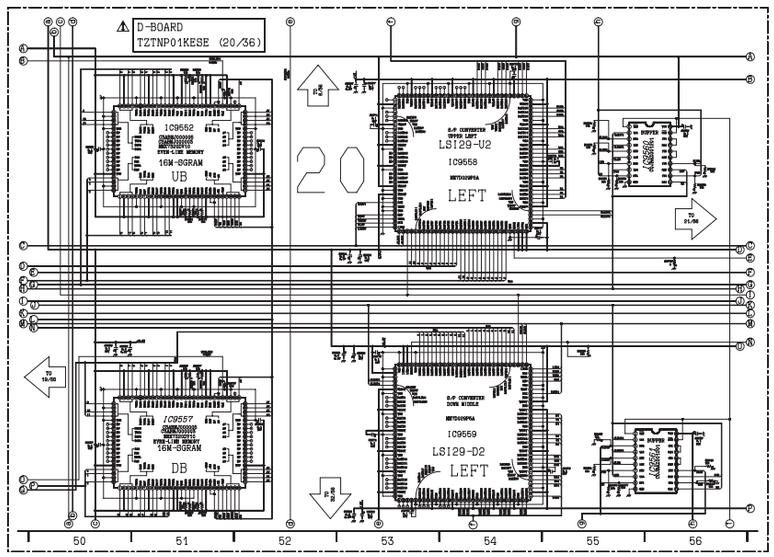

D-BOARD
TZTNP01KESE (30/36)
LSI27
IC9450
SLV [42]
LEFT
30
64M-SDRAM
IC9452
64M-SDRAM
IC9453
36
37
38
39
40
41
42

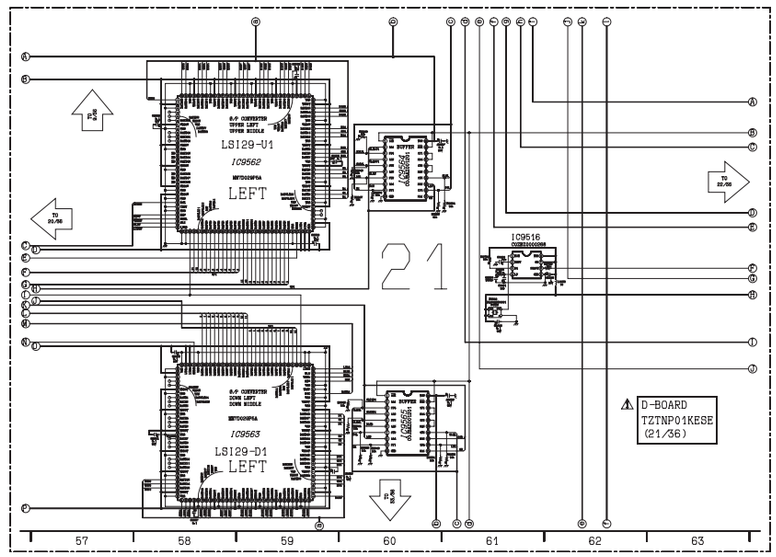

D-BOARD
TZTNP01KESE (7/36)
7
UF
16M-SGRAM
IC9961
TO 8/36
TO 8/36
TO 8/36
43
44
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46
47
48
49

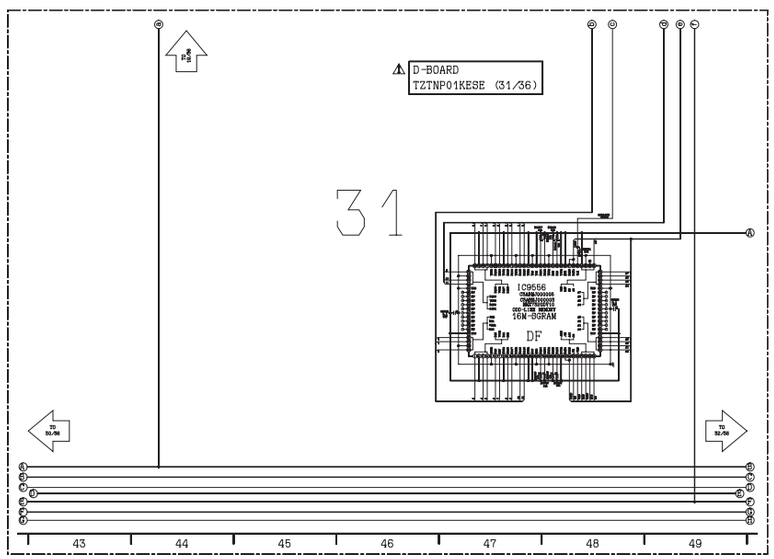

D-BOARD
TZTNP01KESE (8/36)
8
TO 7/36
TO 8/36
TO 8/36
TO 8/36
50
51
52
53
54
55
56

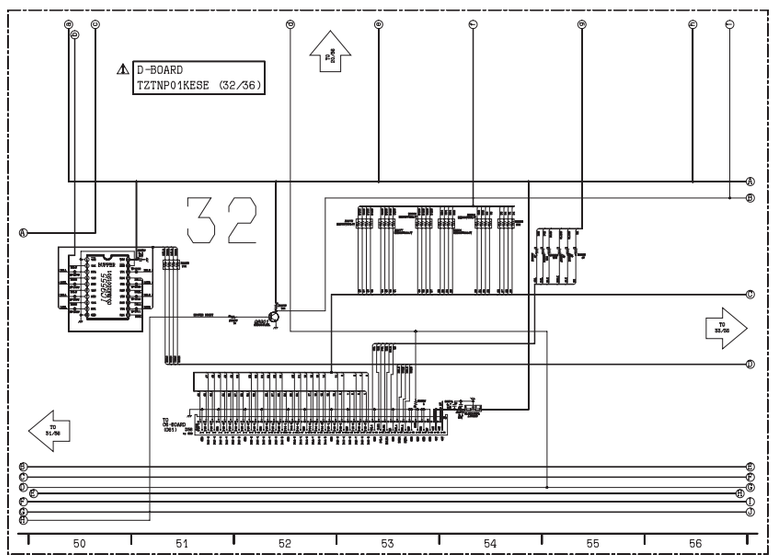

D-BOARD
TZTNP01KESE (9/36)
9
TO 8/36
TO 10/36
TO 10/36
57
58
59
60
61
62
63

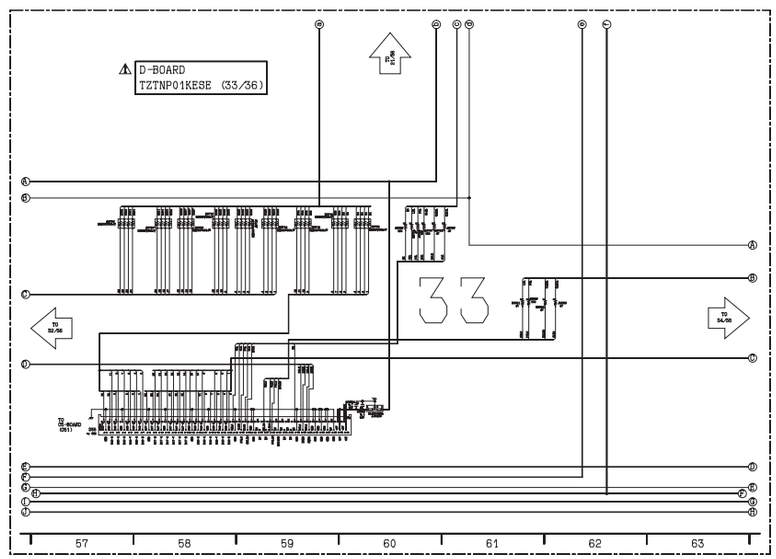

D-BOARD
TZTNP01KESE (19/36)
LSI28
IC9551
SUB-FIELD PROCESSOR
SLV (BA)
LEFT
19
IC9057
TO 15/36
TO 20/36
TO 21/36
43
44
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48
49

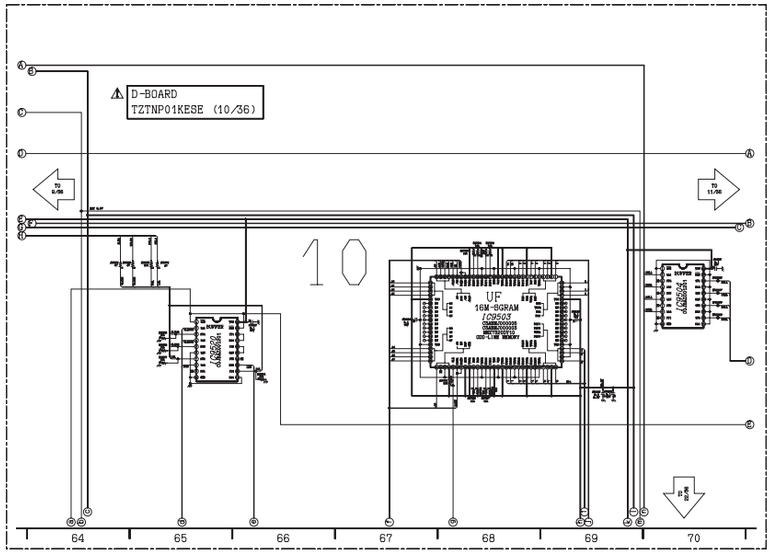

D-BOARD
TZTNP01KESE (20/36)
20
IC9552
16M-SGRAM
UB
LS129-U2
IC9558
LEFT
IC9557
16M-SGRAM
DB
IC9559
LS129-D2
LEFT
TO 15/36
TO 21/36
TO 21/36
50
51
52
53
54
55
56

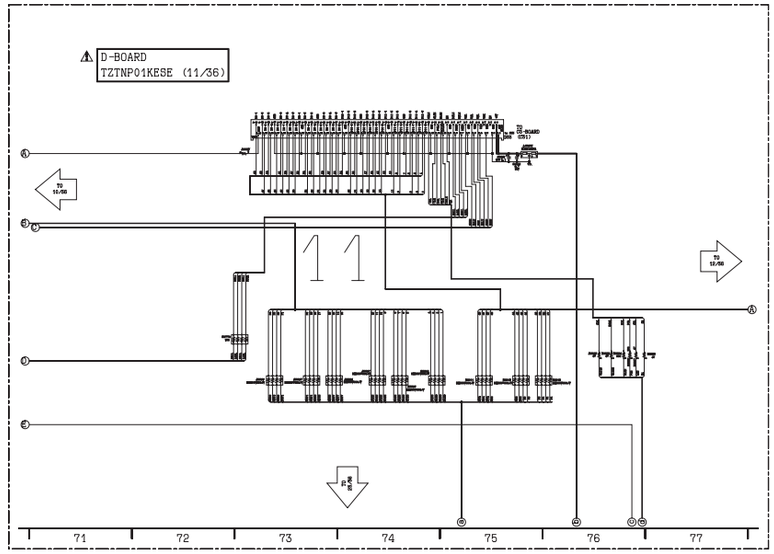

21
LS129-U1
IC9562
LEFT
IC9516
IC9563
LS129-D1
LEFT
D-BOARD
TZTNP01KESE (21/36)
TO 20/36
TO 22/36
TO 21/36
57
58
59
60
61
62
63

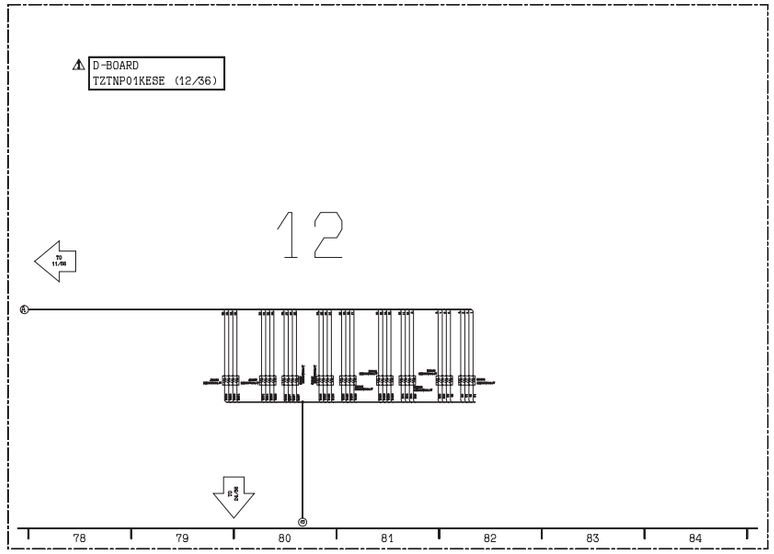

D-BOARD
TZTNP01KESE (31/36)
31
IC9556
16M-SGRAM
DF
TO 30/36
TO 32/36
43
44
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48
49

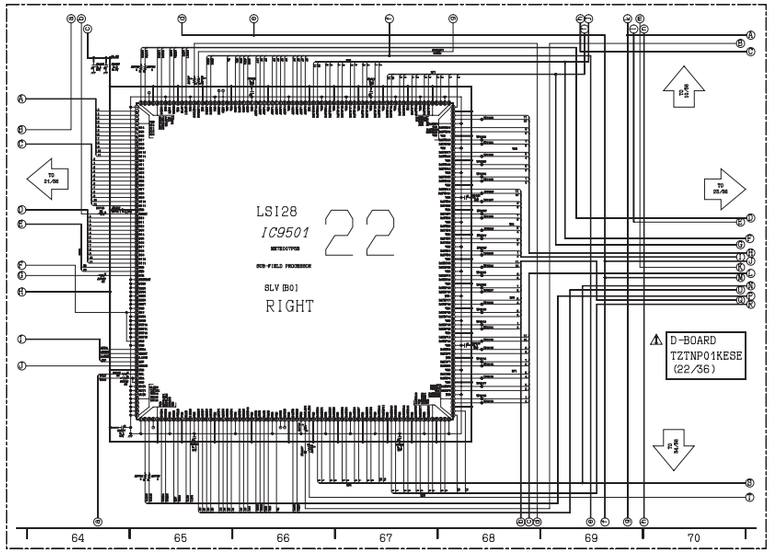

D-BOARD
TZTNP01KESE (32/36)
32
TO 31/36
TO 31/36
50
51
52
53
54
55
56

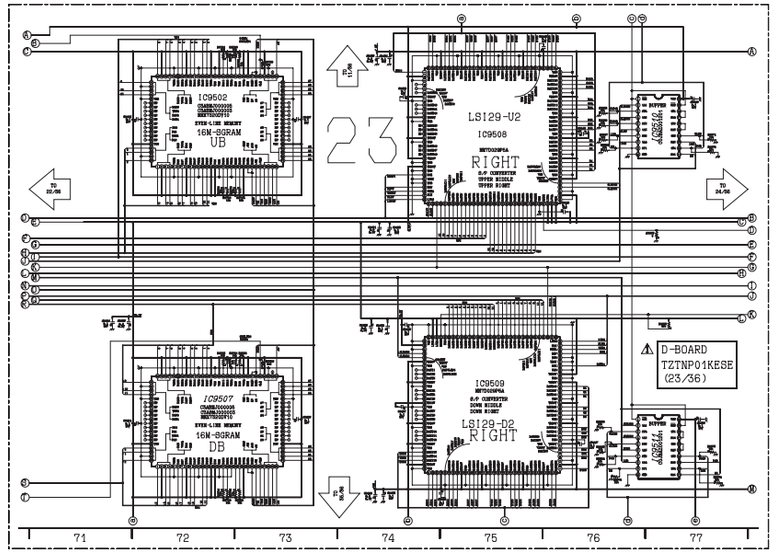

D-BOARD
TZTNP01KESE (33/36)
33
TO 32/36
TO 34/36
57
58
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60
61
62
63

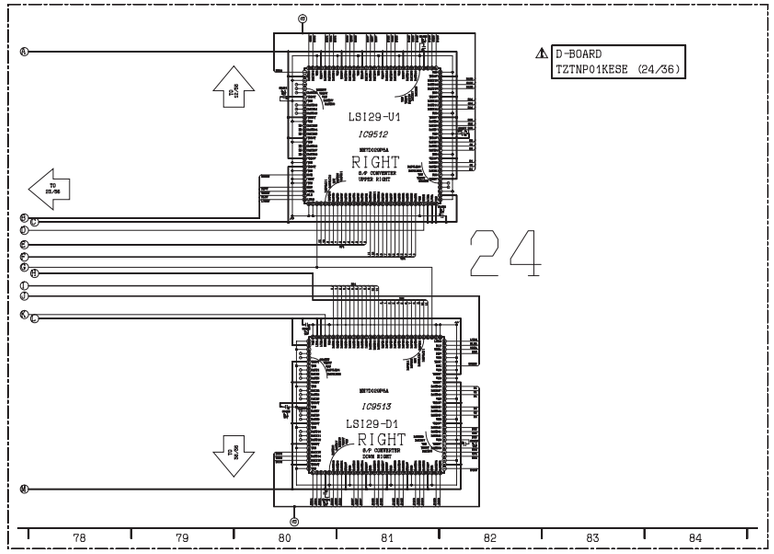

D-BOARD
TZTNP01KESE (10/36)
10
UF
16M-SGRAM
IC9503
64
65
66
67
68
69
70

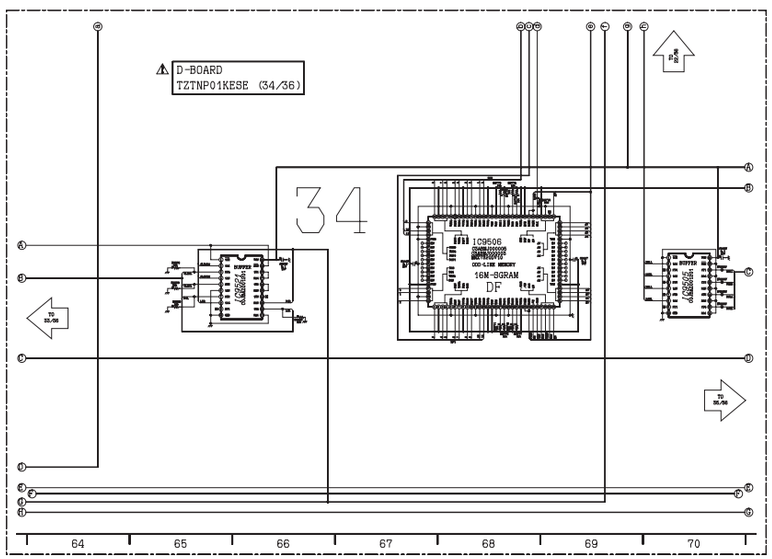

D-BOARD
TZTNP01KESE (11/36)
11
71
72
73
74
75
76
77

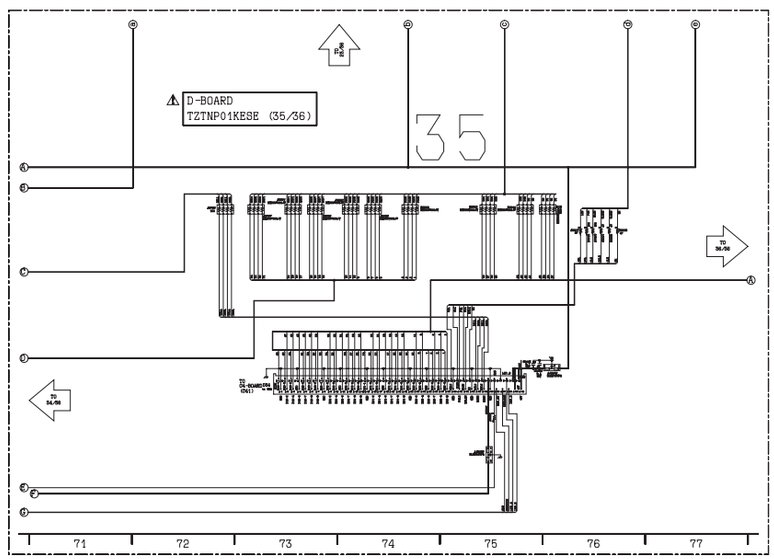

D-BOARD
TZTNP01KESE (12/36)
12
78
79
80
81
82
83
84

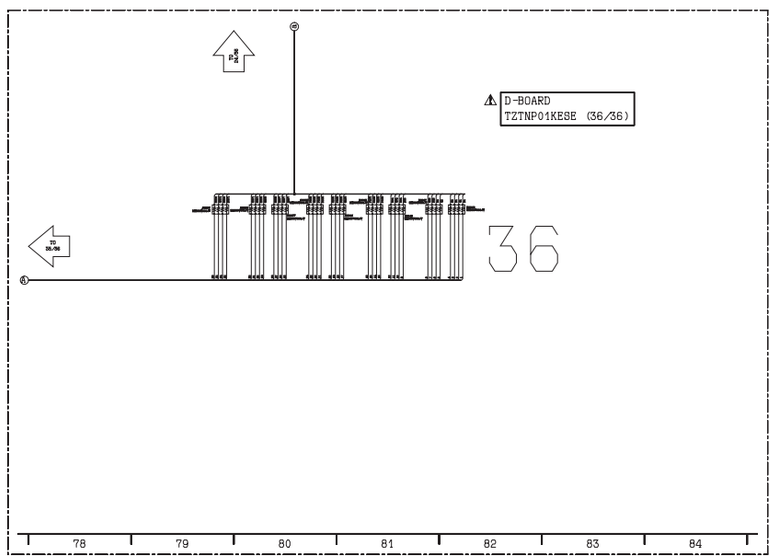

LSI28
IC9501
22
SUB-FIELD PROCESSOR
SLV [B0]
RIGHT
D-BOARD
TZTNP01KESE
(22/36)
64
65
66
67
68
69
70

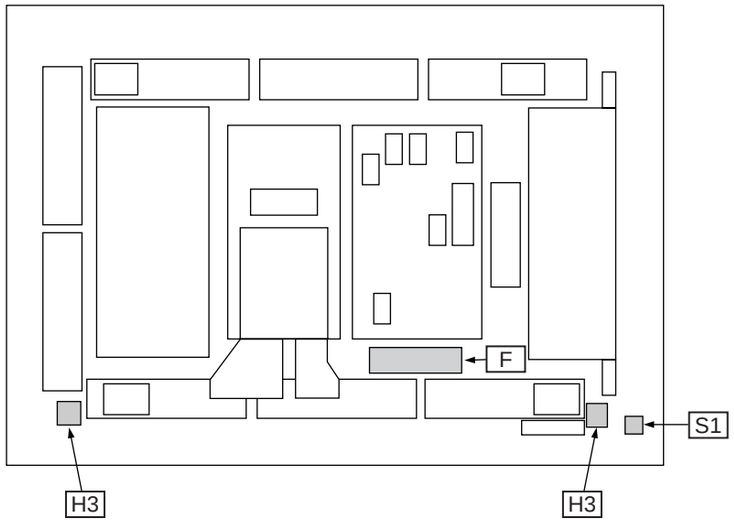

IC9502
16M-SGRAM
UB
23
LSI29-U2
IC9508
RIGHT
IC9507
16M-SGRAM
DB
IC9509
LSI29-D2
RIGHT
D-BOARD
TZTNP01KESE
(23/36)
71
72
73
74
75
76
77


LSI29-U1
IC9512
RIGHT
24
IC9513
LSI29-D1
RIGHT
D-BOARD
TZTNP01KESE (24/36)
78
79
80
81
82
83
84

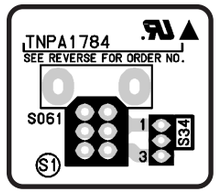

D-BOARD
TZTNP01KESE (34/36)
34
IC9506
16M-SGRAM
DF
64
65
66
67
68
69
70


D-BOARD
TZTNP01KESE (35/36)
35
71
72
73
74
75
76
77

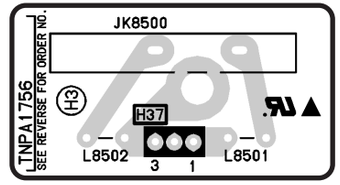

D-BOARD
TZTNP01KESE (36/36)
36
78
79
80
81
82
83
84



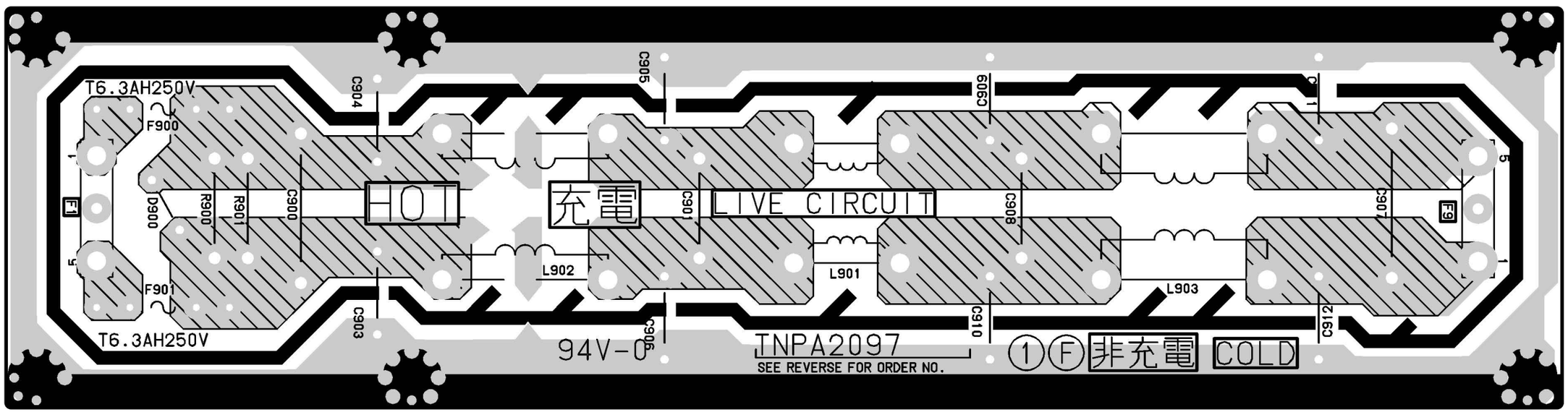

**S1-BOARD**
**TNPA1784**

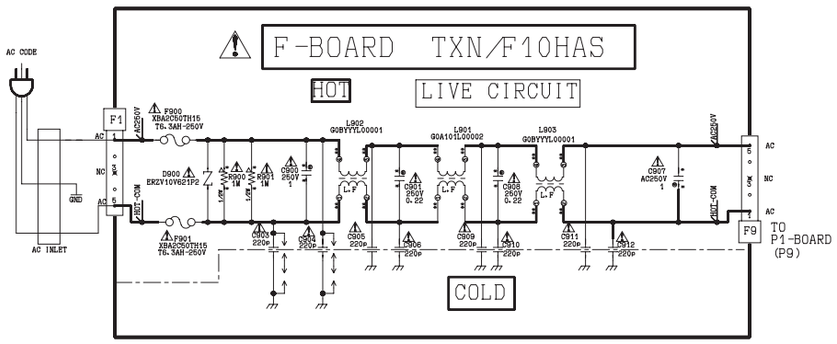


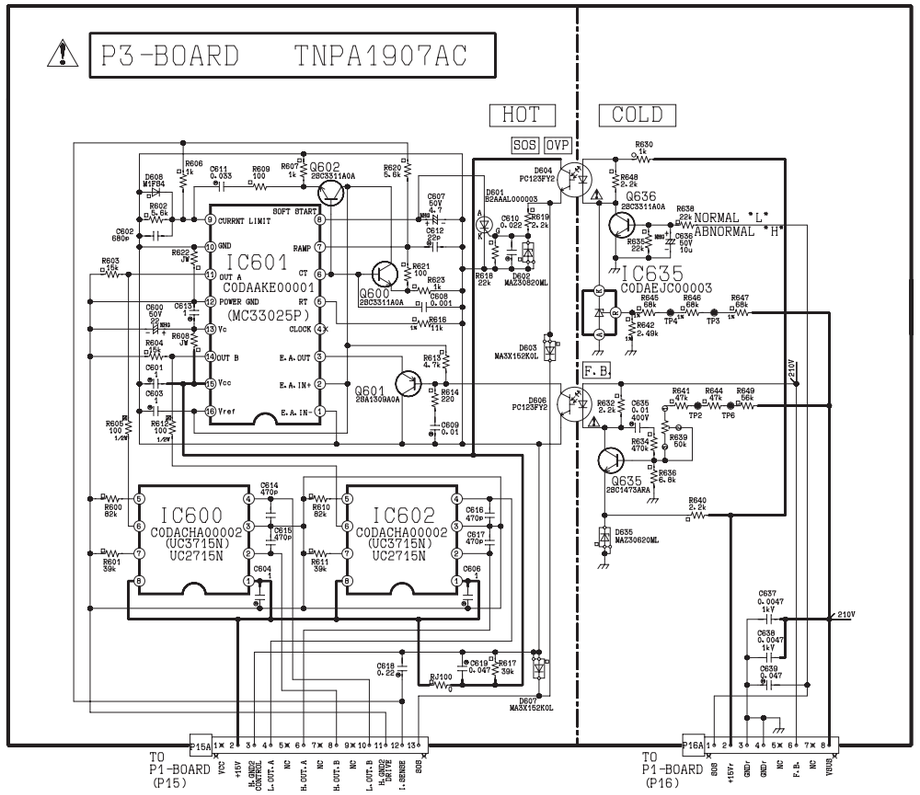

**H3-BOARD**
**TNPA1756AB**

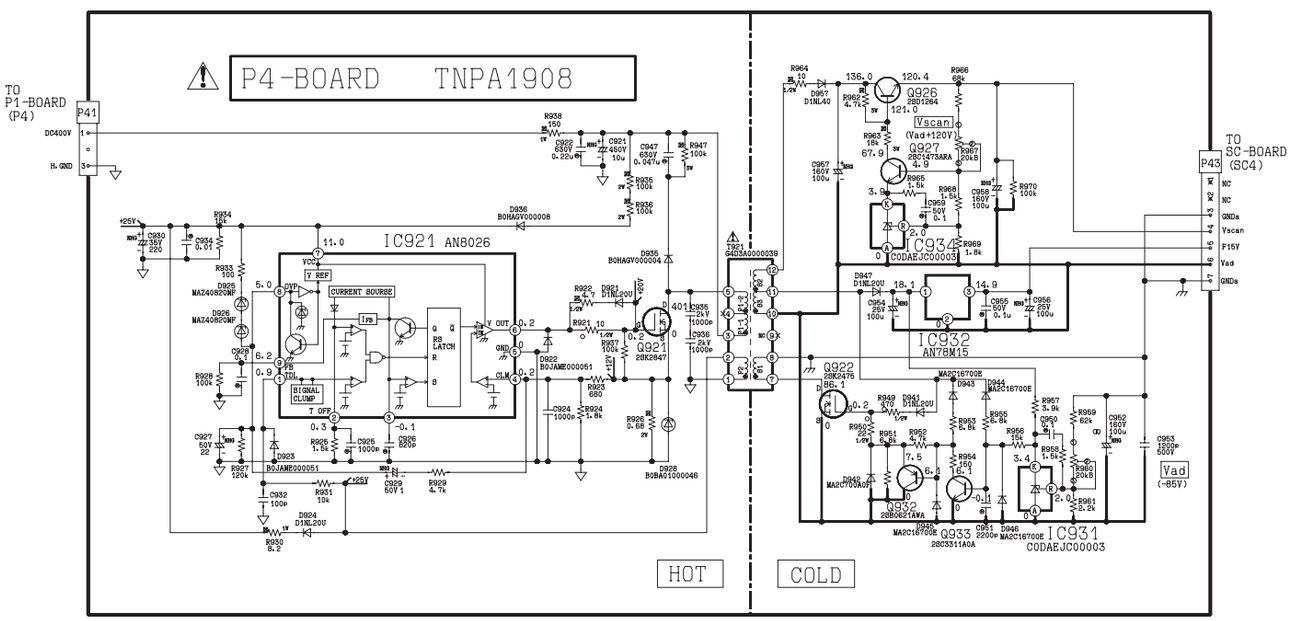


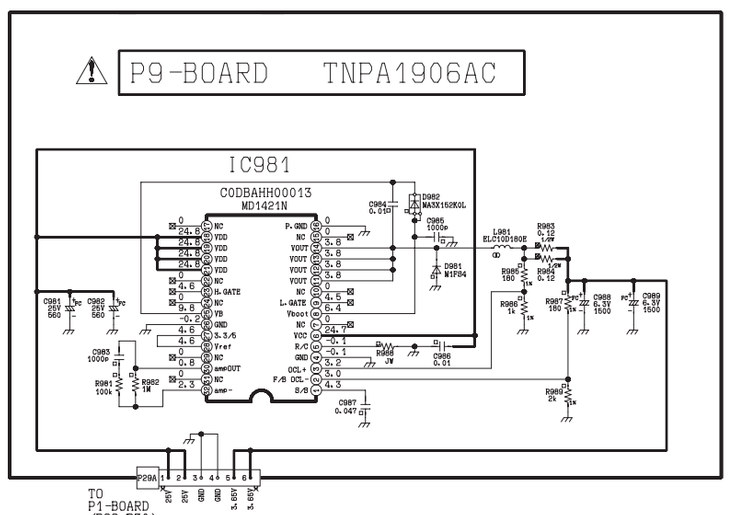

**F-BOARD**
**TXN/F10HAS**



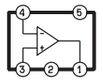

F-BOARD TXN/F10HAS
HOT
LIVE CIRCUIT
COLD
AC CODE
AC INLET
F900 XBA0302TH15 T6.3AH-250V
F901 XBA0302TH15 T6.3AH-250V
D900 ERZV10V621P2
L902 G0BYYYL00001
L901 G0A101L00002
L903 G0BYYYL00001
C907 AC250V 1
TO P1-BOARD (P9)


P3-BOARD TNPA1907AC
HOT
COLD
SOS
OVP
IC601 C0DAAKE00001 (MC33025P)
IC600 C0DACHA00002 (UC3715N) UC2715N
IC602 C0DACHA00002 (UC3715N) UC2715N
Q602 2SC3311A0A
Q600 2SC3311A0A
Q601 2SA1309A0A
IC635 C0DAEJC00003
Q636 2SC3311A0A
Q635 2SC1473ARA
NORMAL "L"
ABNORMAL "H"
F.B
TO P1-BOARD (P15)
TO P1-BOARD (P16)

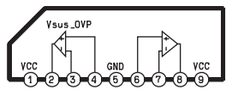

P4-BOARD TNPA1908
HOT
COLD
IC921 AN8026
IC932 AN78M15
IC931 C0DAEJC00003
Q921 2SK2847
Q922 2SK2476
Q926 2SD1264
Q927 2SC1473ARA
Q933 2SD362TAWA
TO P1-BOARD (P4)
TO SC-BOARD (SC4)


P9-BOARD TNPA1906AC
IC981 C0DBAHH00013 MD1421N
TO P1-BOARD (P29,P30)

AD8055ART



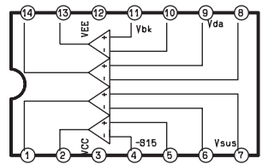
AN6913-NT



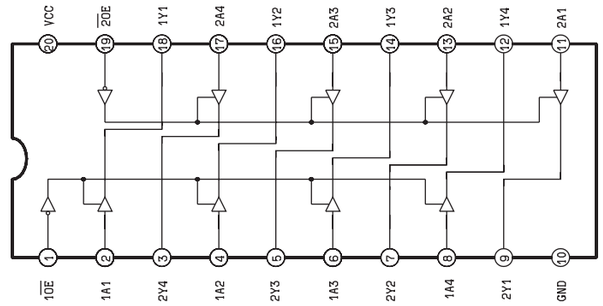

AN1431M




AN6912

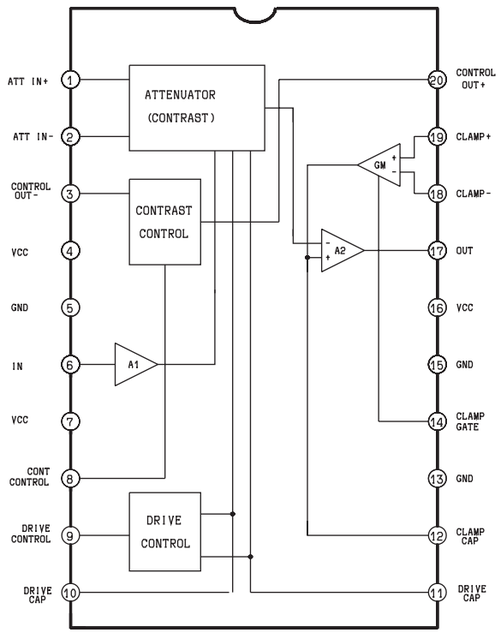



C0JBAZ000005
C0JBAZ000448

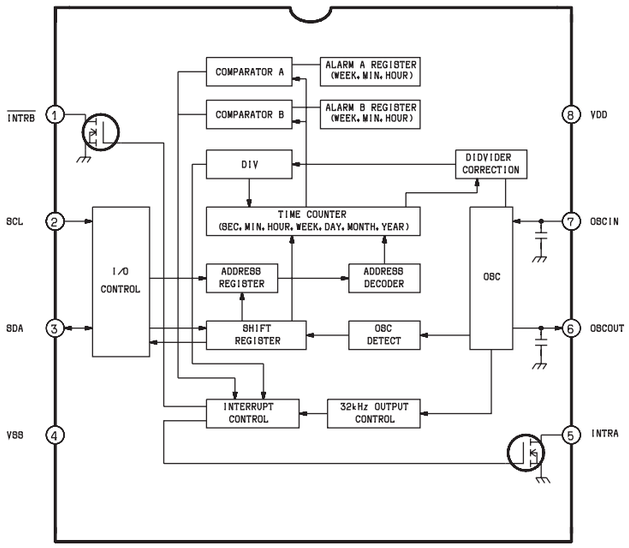



| INPUTS | | OUTPUTS |
|---|---|---|
| $\overline{OE}$ | An | |
| L | L | L |
| L | H | H |
| H | X | Z |

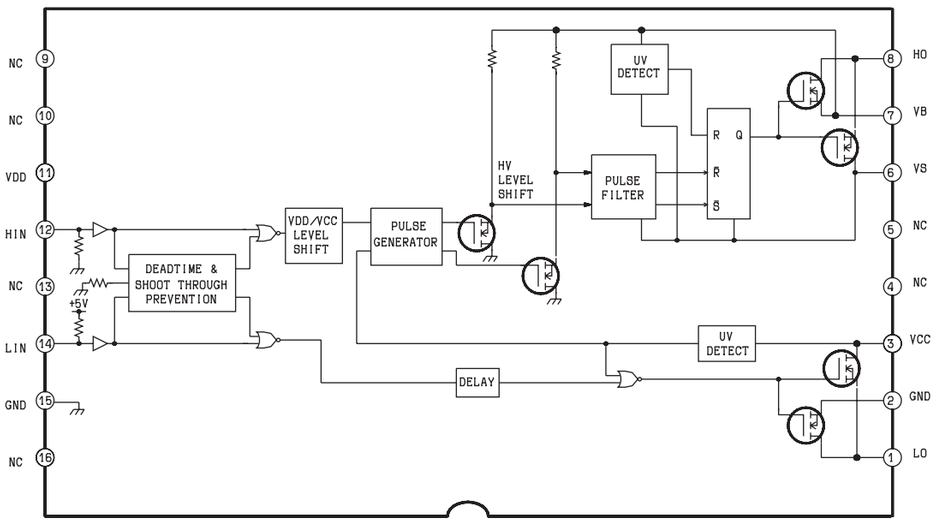
C0ABZA000031



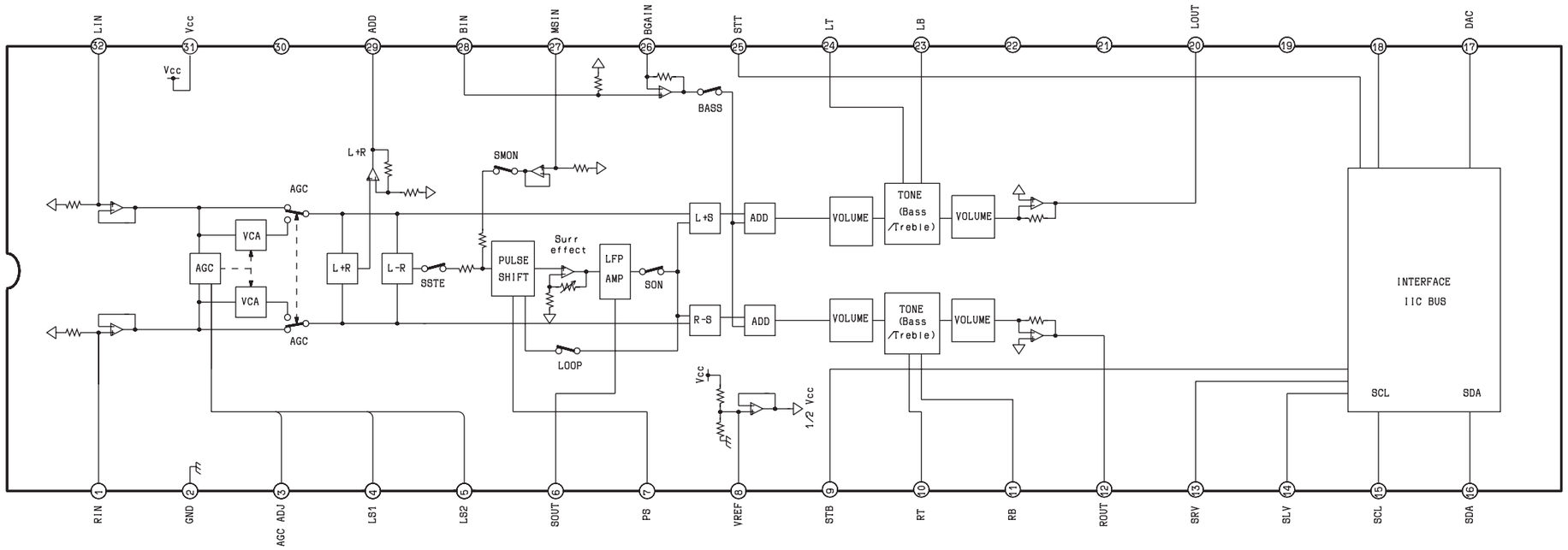

C1DB00000274




C0ZBZ0000561

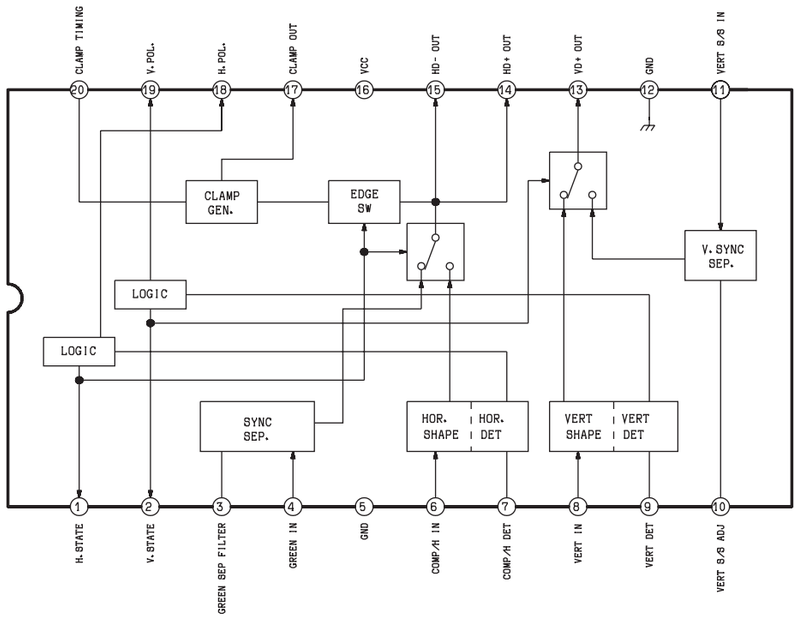



BH3865S

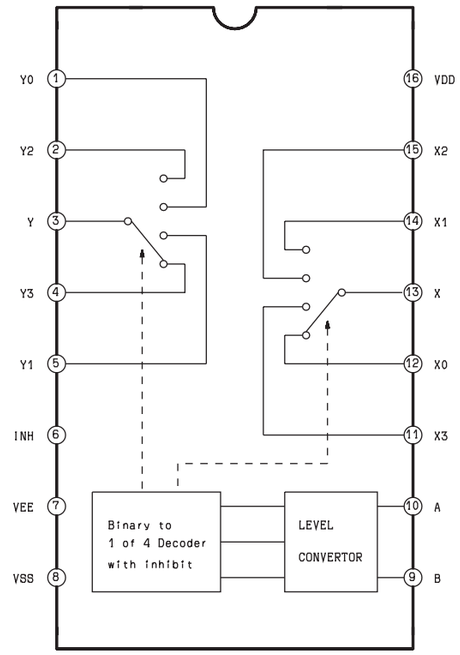



| PIN NO. | SYMBOL | FUNCTION | PIN NO. | SYMBOL | FUNCTION |
|---|---|---|---|---|---|
| 1 | RIN | R CH INPUT | 17 | DAC | EX. DAC |
| 2 | GND | GND | 18 | SCV | VOL C CH SHOCK |
| 3 | AGC ADJ | AGC 0dB ADJ | 19 | COUT | C CH OUT |
| 4 | LS1 | AGC LEVEL SENSOR1 | 20 | LOUT | L CH OUT |
| 5 | LS2 | AGC LEVEL SENSOR2 | 21 | CB | C CH BASS FC |
| 6 | SOUT | S CH OUT AND LPF | 22 | CT | C CH TREBLE FC |
| 7 | PS | PHASE SHIFT | 23 | LB | L CH BASS FC |
| 8 | VREF | 1/2 VCC | 24 | LT | L CH TREBLE |
| 9 | STB | BASS SHOCK | 25 | STT | TREBLE SHOCK |
| 10 | RT | R CH TREBLE FC | 26 | BGAIN | BASS MIX GAIN |
| 11 | RB | R CH BASS FC | 27 | MSIN | MONO SURR IN |
| 12 | ROUT | R CH OUT | 28 | BIN | BASS DET LPF AMP |
| 13 | SRV | VOL R CH SHOCK | 29 | ADD | AGC L+R OUT |
| 14 | SLV | VOL L CH SHOCK | 30 | CIN | C CH INPUT |
| 15 | SCL | SERIAL CLOCK | 31 | VCC | 9V |
| 16 | SDA | SERIAL DATA | 32 | LIN | L CH INPUT |

## M52036SP

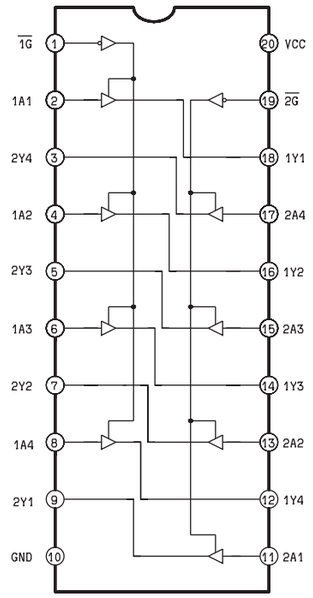



## MC14052BF




| INPUTS | | OUTPUTS | |
|---|---|---|---|
| A | B | X | Y |
| L | L | X0 | Y0 |
| L | H | X1 | Y1 |
| H | L | X2 | Y2 |
| H | H | X3 | Y3 |

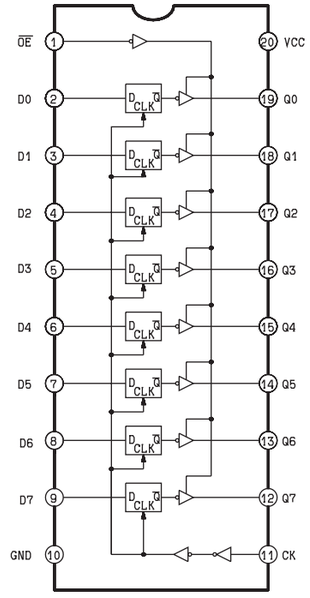
## TC74ACT244F
## TC74HC244F
## TC74LCX244F




| INPUTS | | OUTPUTS |
|---|---|---|
| $\overline{G}$ | An | |
| L | L | L |
| L | H | H |
| H | X | Z |

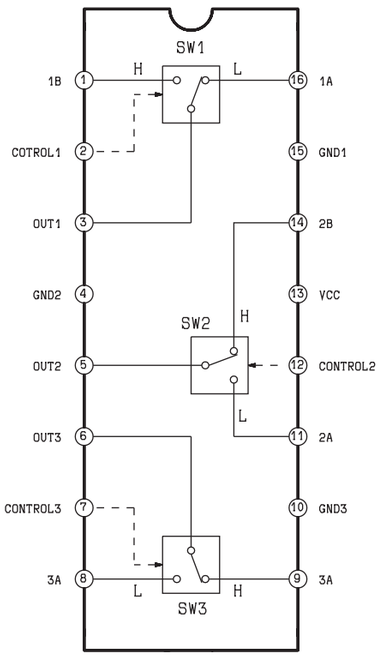
X:Don't Care
Z:High Impedance

## TC74LCX574F

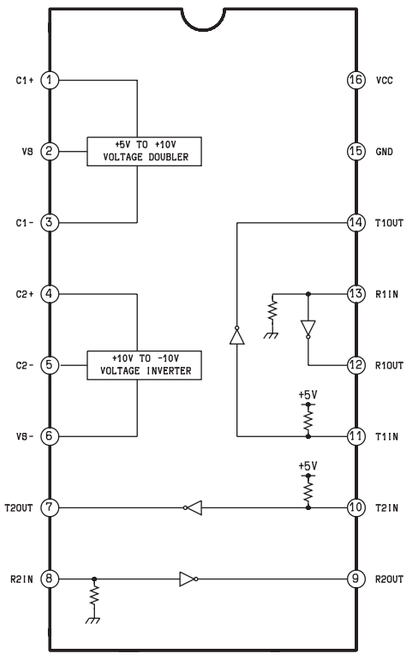



| INPUTS | | | OUTPUTS |
|---|---|---|---|
| $\overline{OE}$ | CK | D | |
| H | X | X | Z |
| L | L | X | ON |
| L | L | L | L |
| L | L | H | H |

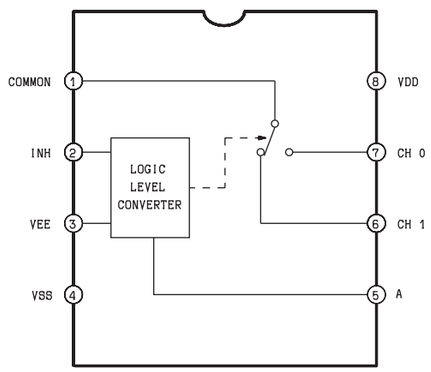
## M52055FP




## MAX202CSE



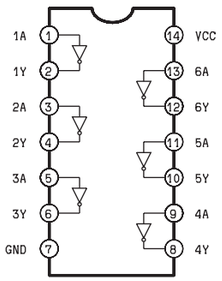

## TC4W53F




| INPUTA | | ON CHNNEL |
|---|---|---|
| INH | A | |
| L | L | CH 0 |
| L | H | CH 1 |
| H | * | NONE |

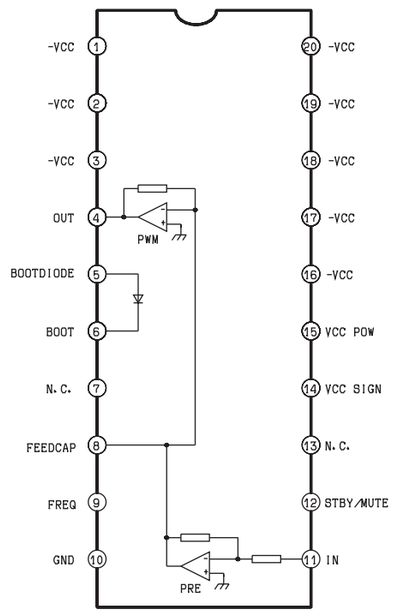
*:Don't care

## TC74HC14AF
## TC74HCU04AF




| A | Y |
|---|---|
| L | H |
| H | L |

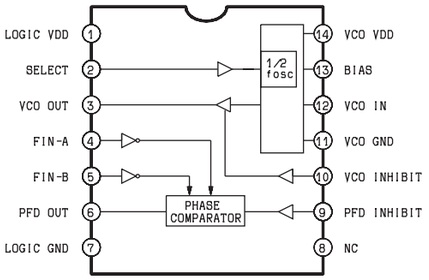
## TDA7480



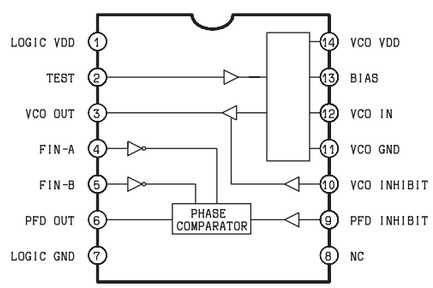

| INPUTS | | OUTPUTS |
|---|---|---|
| $\overline{G}$ | An | |
| L | L | L |
| L | H | H |
| H | X | Z |

X:Don't Care
Z:High Impedance

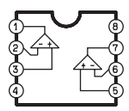
## TCL2932



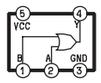

## TCL2933




## NJM2903M

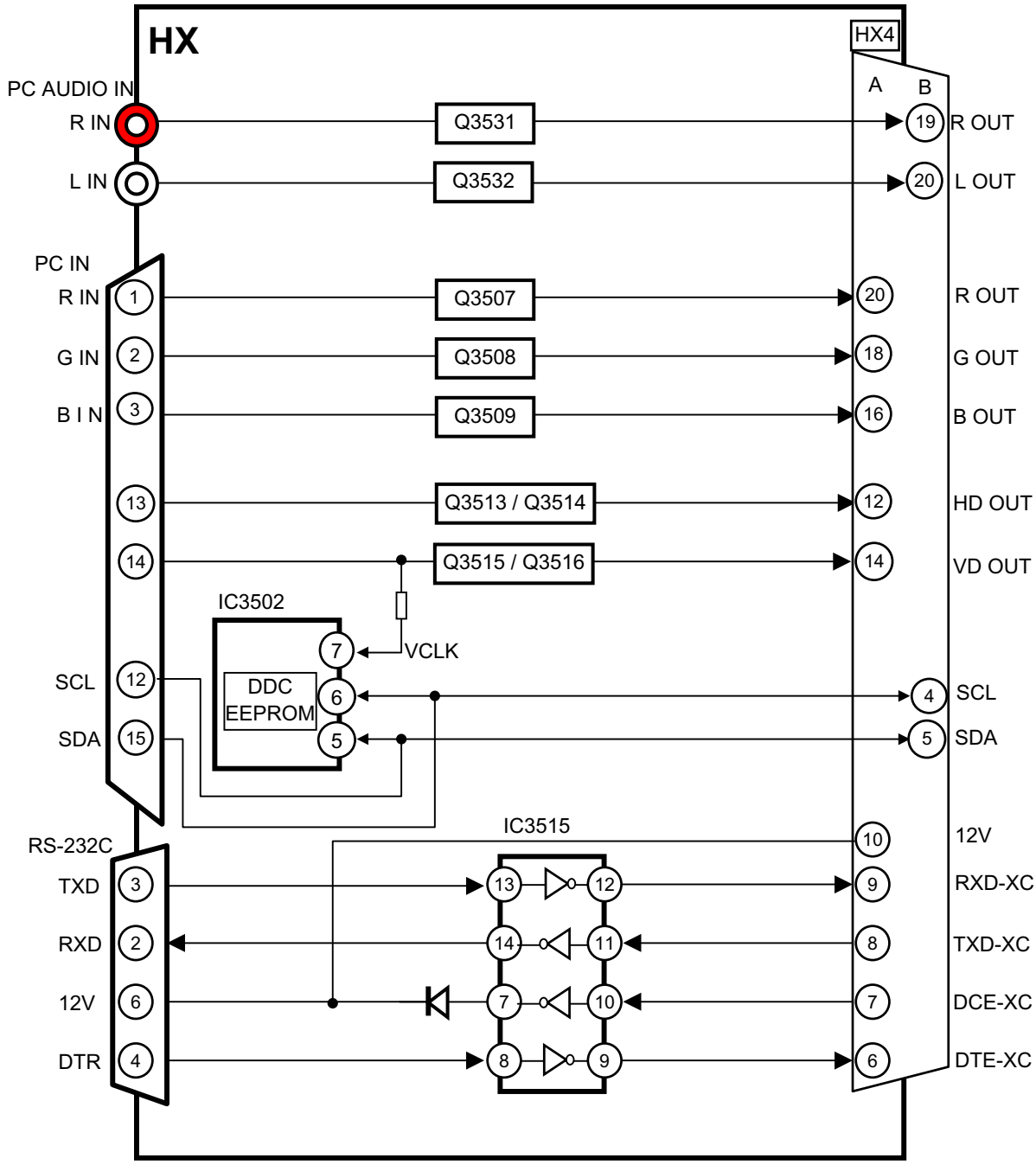


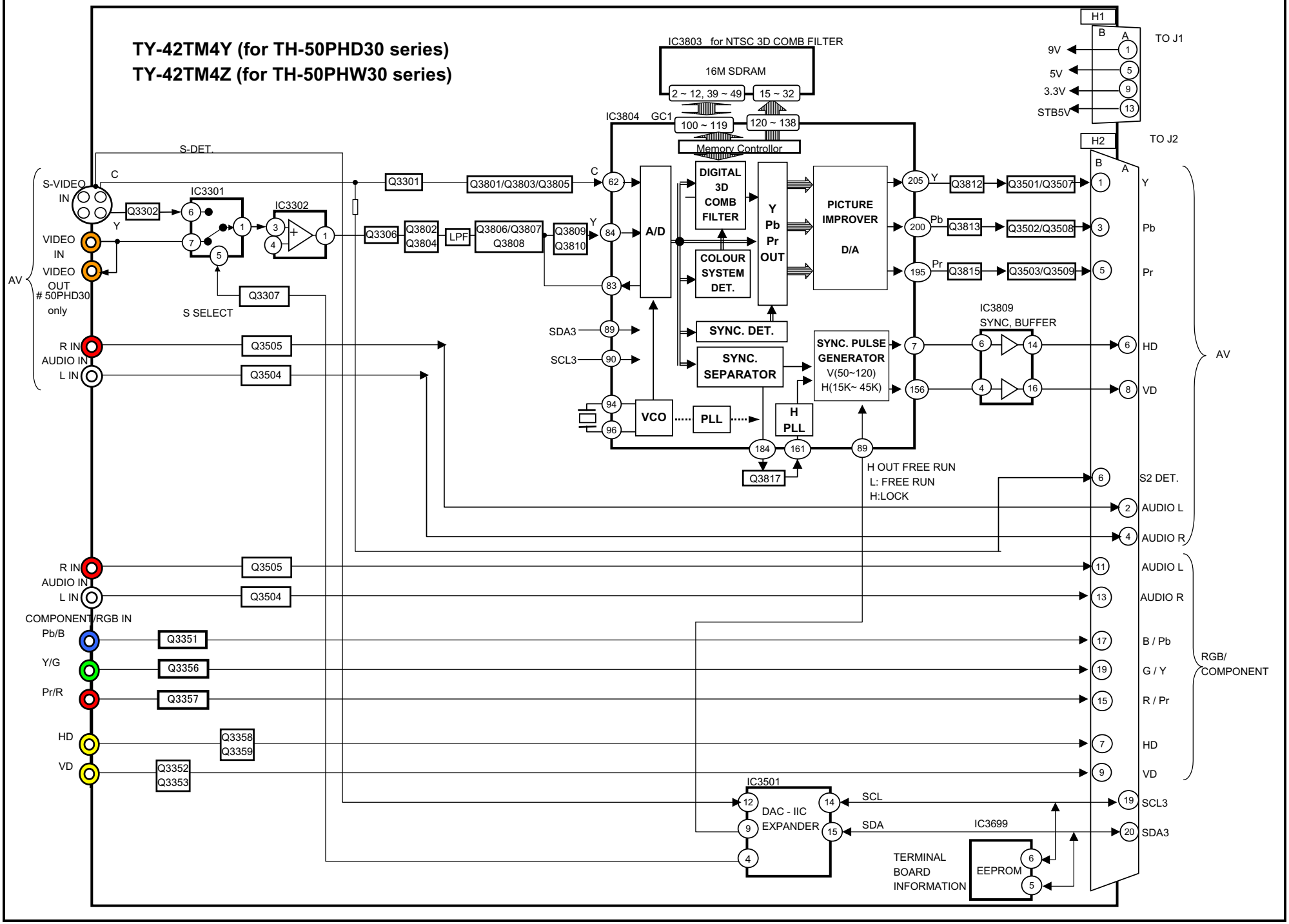
## TC7SH32FU

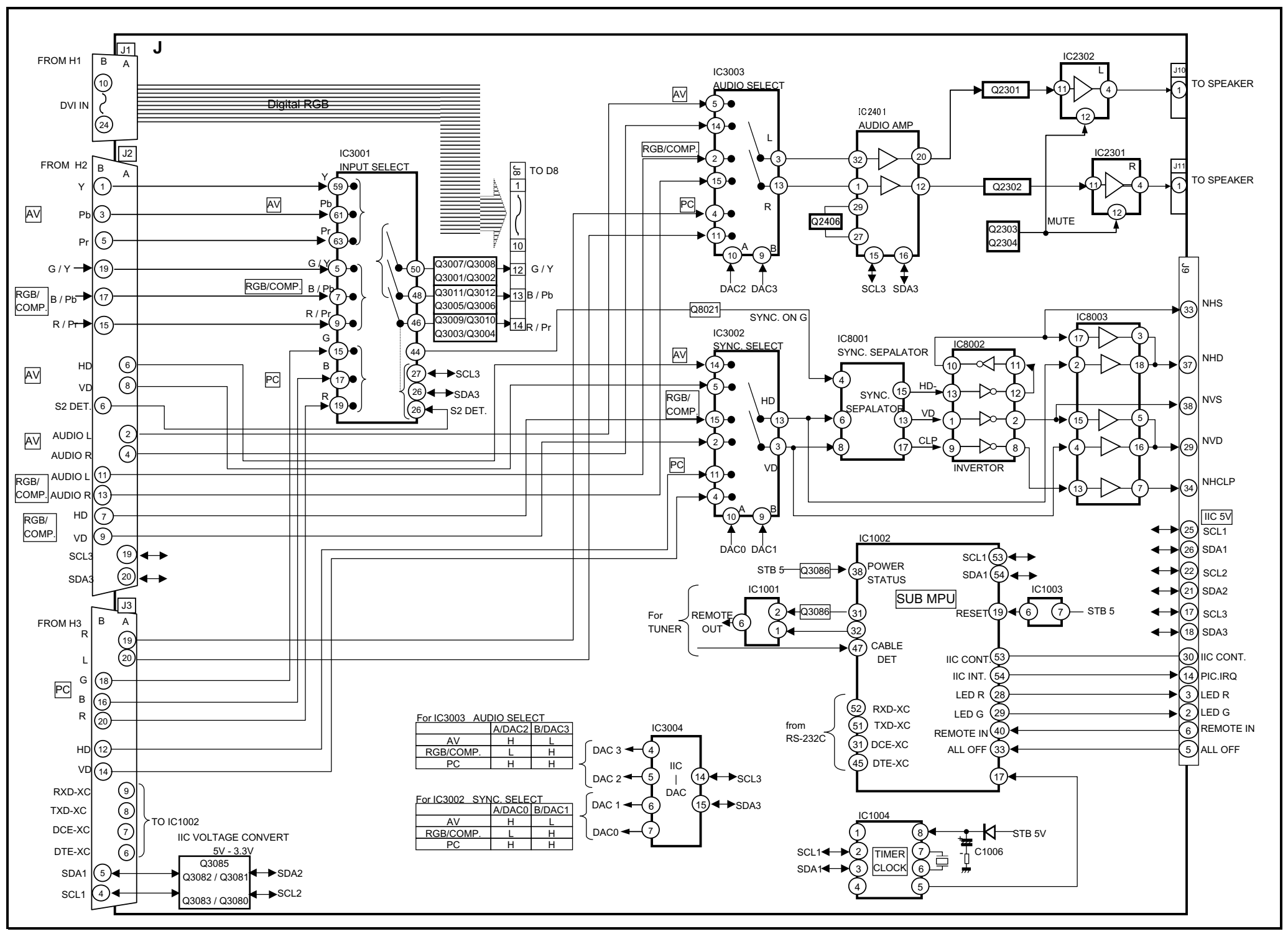


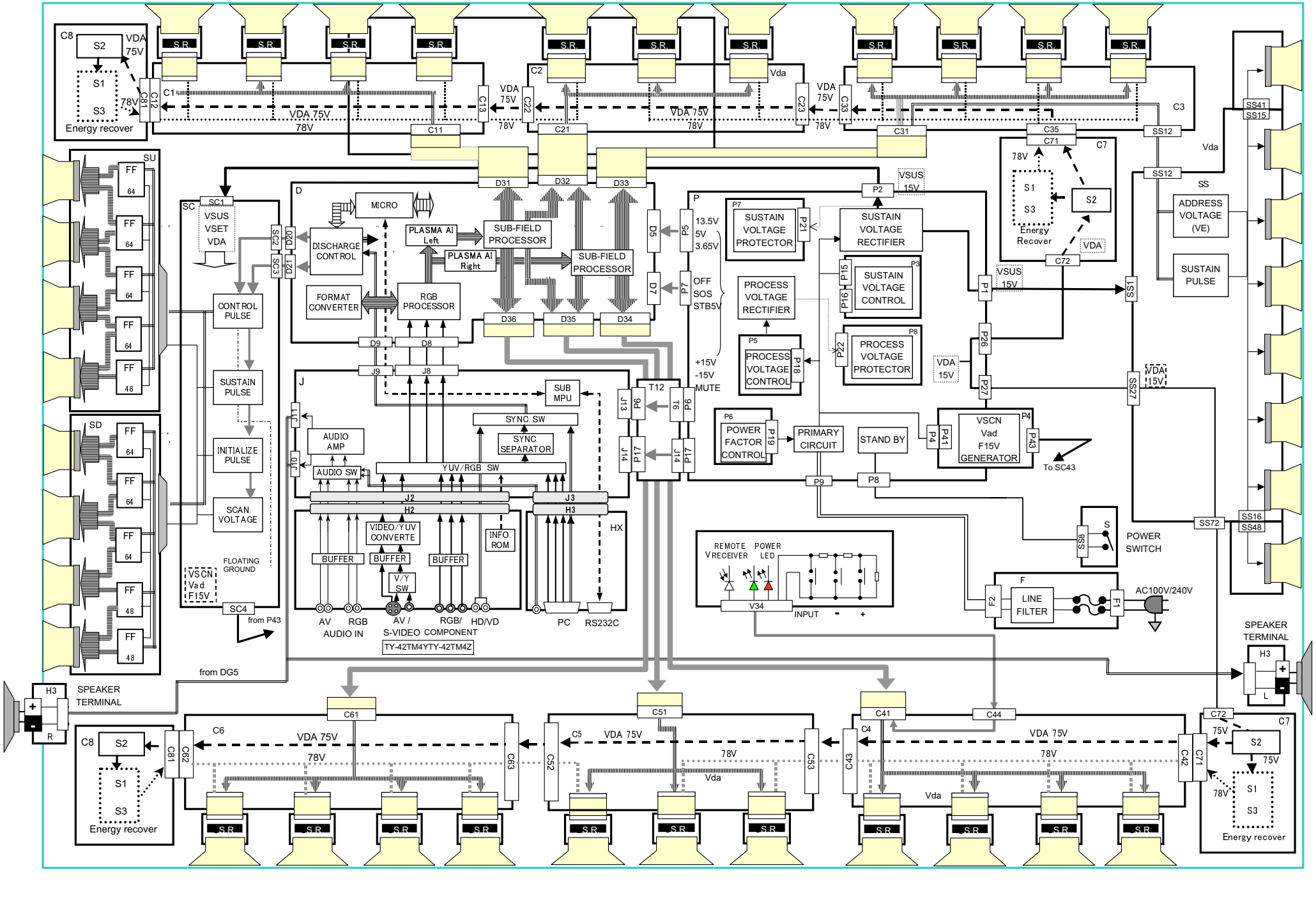

| A | B | Y |
|---|---|---|
| L | L | H |
| L | H | H |
| H | L | H |
| H | H | L |

# PC Terminal Board

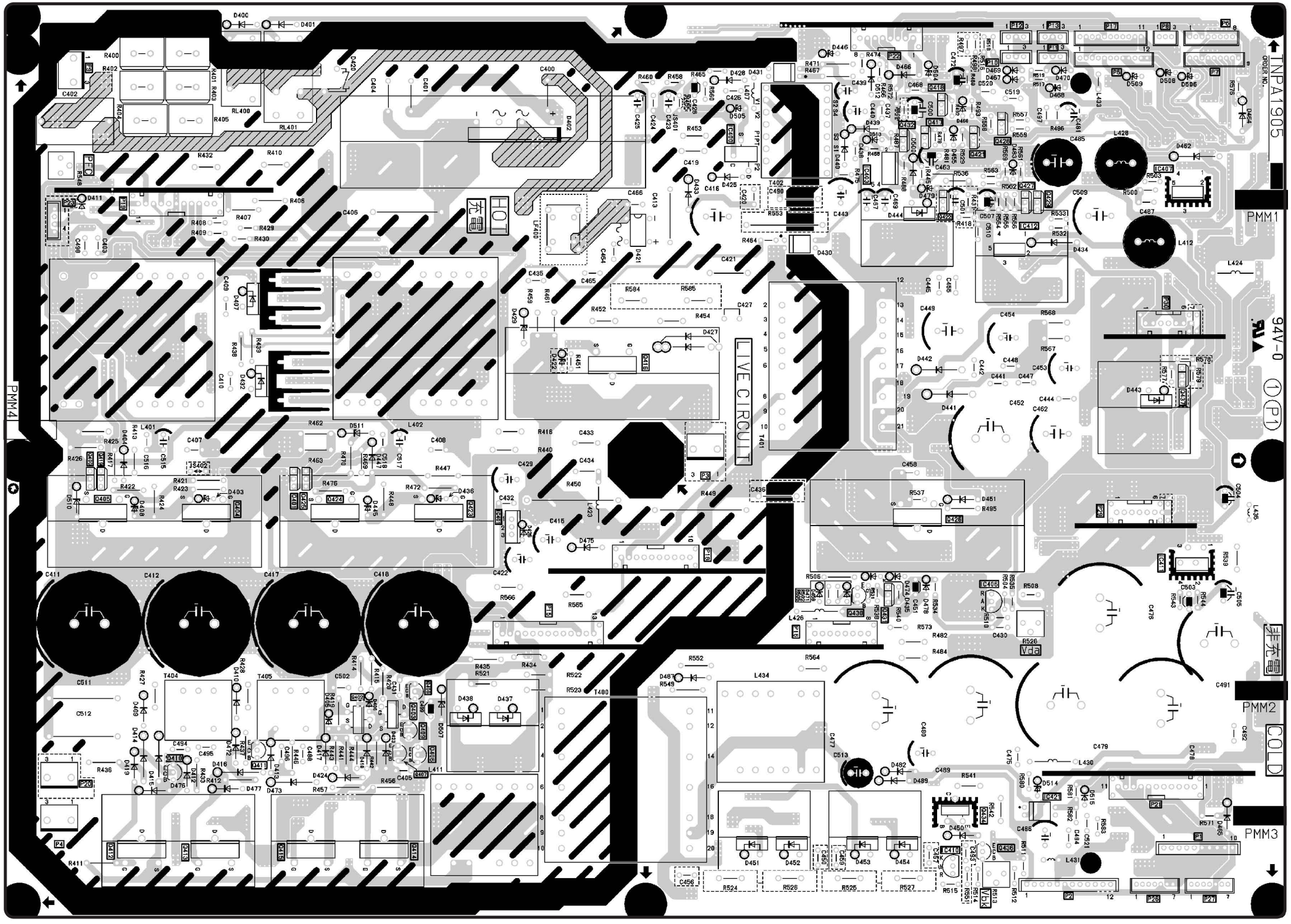



TY-42TM4Y (for TH-50PHD30 series)
TY-42TM4Z (for TH-50PHW30 series)
IC3803 for NTSC 3D COMB FILTER
16M SDRAM
2 ~ 12, 39 ~ 49
15 ~ 32
100 ~ 119
120 ~ 138
IC3804 GC1
Memory Controllor
H1
TO J1
9V
5V
3.3V
STB5V
H2
TO J2
S-DET.
S-VIDEO IN
VIDEO IN
VIDEO OUT
AV
# 50PHD30 only
IC3301
IC3302
S SELECT
Q3307
Q3302
Q3301
Q3306
Q3802
Q3804
LPF
Q3806/Q3807
Q3808
Q3809
Q3810
Q3801/Q3803/Q3805
A/D
DIGITAL 3D COMB FILTER
COLOUR SYSTEM DET.
SYNC. DET.
SYNC. SEPARATOR
Y Pb Pr OUT
PICTURE IMPROVER
D/A
SYNC. PULSE GENERATOR
V(50~120)
H(15K~ 45K)
IC3809
SYNC, BUFFER
SDA3
SCL3
VCO
PLL
H PLL
Q3817
H OUT FREE RUN
L: FREE RUN
H:LOCK
Q3812
Q3813
Q3815
Q3501/Q3507
Q3502/Q3508
Q3503/Q3509
Y
Pb
Pr
HD
VD
S2 DET.
AUDIO L
AUDIO R
AV
R IN
AUDIO IN
L IN
Q3505
Q3504
COMPONENT/RGB IN
Pb/B
Y/G
Pr/R
HD
VD
Q3351
Q3356
Q3357
Q3358
Q3359
Q3352
Q3353
B / Pb
G / Y
R / Pr
RGB/ COMPONENT
IC3501
DAC - IIC EXPANDER
SCL
SDA
IC3699
EEPROM
TERMINAL BOARD INFORMATION

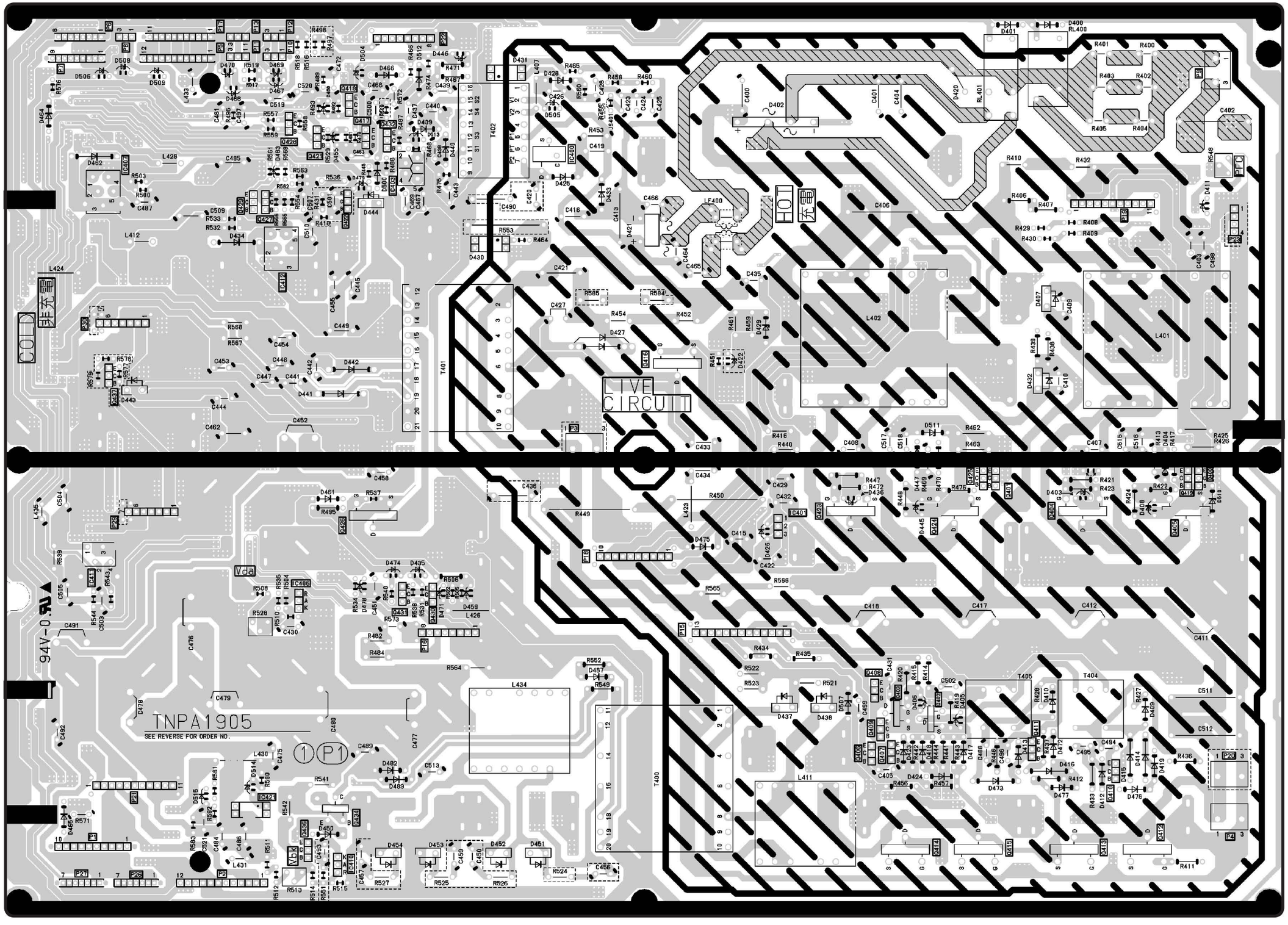

J
FROM H1
J1
B
A
10
DVI IN
24
Digital RGB
FROM H2
J2
Y
AV
Pb
Pr
G / Y
RGB/ COMP.
B / Pb
R / Pr
HD
VD
S2 DET.
AUDIO L
AUDIO R
RGB/ COMP.
AUDIO L
AUDIO R
RGB/ COMP.
HD
VD
SCL3
SDA3
FROM H3
J3
R
L
G
PC
B
R
HD
VD
RXD-XC
TXD-XC
DCE-XC
DTE-XC
SDA1
SCL1
TO IC1002
IIC VOLTAGE CONVERT
5V - 3.3V
Q3085
Q3082 / Q3081
Q3083 / Q3080
SDA2
SCL2
IC3001
INPUT SELECT
Y
Pb
Pr
G / Y
B / Pb
R / Pr
G
B
R
RGB/COMP.
PC
AV
Q3007/Q3008
Q3001/Q3002
Q3011/Q3012
Q3005/Q3006
Q3009/Q3010
Q3003/Q3004
SCL3
SDA3
S2 DET.
J8
TO D8
G / Y
B / Pb
R / Pr
IC3003
AUDIO SELECT
AV
RGB/COMP.
PC
L
R
DAC2 DAC3
IC2401
AUDIO AMP
SCL3 SDA3
Q2301
Q2302
Q2406
Q2303
Q2304
MUTE
IC2302
L
IC2301
R
J10
J11
TO SPEAKER
TO SPEAKER
Q8021
SYNC. ON G
IC3002
SYNC. SELECT
AV
RGB/ COMP.
PC
HD
VD
DAC0 DAC1
IC8001
SYNC. SEPALATOR
SYNC. SEPALATOR
HD-
VD
CLP
IC8002
INVERTOR
IC8003
J9
NHS
NHD
NVS
NVD
NHCLP
IIC 5V
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
IIC CONT.
PIC.IRQ
LED R
LED G
REMOTE IN
ALL OFF
IC1002
STB 5
Q3086
POWER STATUS
SCL1
SDA1
SUB MPU
IC1003
RESET
STB 5
IC1001
For TUNER
REMOTE OUT
Q3086
CABLE DET
IIC CONT.
IIC INT.
LED R
LED G
REMOTE IN
ALL OFF
from RS-232C
RXD-XC
TXD-XC
DCE-XC
DTE-XC
IC1004
TIMER CLOCK
SCL1
SDA1
STB 5V
C1006
For IC3003 AUDIO SELECT
A/DAC2
B/DAC3
AV H L
RGB/COMP. L H
PC H H
For IC3002 SYNC. SELECT
A/DAC0
B/DAC1
AV H L
RGB/COMP. L H
PC H H
IC3004
IIC
DAC
DAC 3
DAC 2
DAC 1
DAC0
SCL3
SDA3

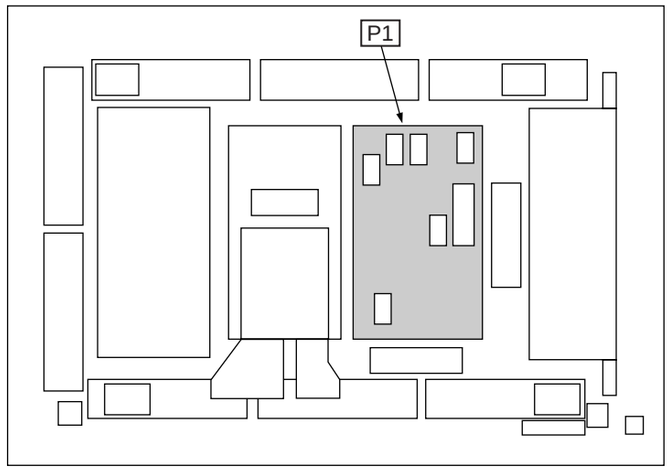

S.R
C8
S2
VDA 75V
S1
S3
78V
Energy recover
C81
C12
C1
VDA 75V
78V
C13
C2
Vda
C22
C23
C33
C3
C11
C21
C31
C35
C71
C7
SS41
SS15
SS12
Vda
SS
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
SU
FF
64
48
SD
SC
SC1
VSUS
VSET
VDA
SC2
SC3
D20
D21
DISCHARGE CONTROL
MICRO
PLASMA AI Left
PLASMA AI Right
SUB-FIELD PROCESSOR
FORMAT CONVERTER
RGB PROCESSOR
D
D31
D32
D33
D36
D35
D34
D9
D8
J9
J8
D5
D7
P5
P7
13.5V
5V
3.65V
OFF
SOS
STB5V
+15V
-15V
MUTE
P
P2
VSUS 15V
SUSTAIN VOLTAGE PROTECTOR
P21
SUSTAIN VOLTAGE RECTIFIER
P15
P16
SUSTAIN VOLTAGE CONTROL
P3
PROCESS VOLTAGE RECTIFIER
P5
PROCESS VOLTAGE CONTROL
P18
P22
PROCESS VOLTAGE PROTECTOR
P8
P1
P26
P27
VDA 15V
SS1
SS27
VDA 15V
CONTROL PULSE
SUSTAIN PULSE
INITIALIZE PULSE
SCAN VOLTAGE
FLOATING GROUND
VSCN
Vad
F15V
SC4
from P43
J
J1
J10
SUB MPU
SYNC. SW
SYNC. SEPARATOR
AUDIO AMP
AUDIO SW
YUV/RGB SW
J2
J3
H2
H3
HX
VIDEO/YUV CONVERTE
INFO. ROM
BUFFER
V/Y SW
AV
AUDIO IN
RGB
AV / S-VIDEO
RGB/ COMPONENT
HD/VD
PC
RS232C
TY-42TM4YTY-42TM4Z
T12
J13
P6
T6
J14
P17
P6
POWER FACTOR CONTROL
P19
PRIMARY CIRCUIT
STAND BY
P4
P41
VSCN Vad F15V GENERATOR
P43
To SC43
P9
P8
REMOTE RECEIVER
POWER LED
V34
INPUT
SS8
S
POWER SWITCH
SS72
SS16
SS48
F
F2
LINE FILTER
T1
AC100V/240V
SPEAKER TERMINAL
H3
L
R
from DG5
C61
C51
C41
C44
C72
C6
C5
C4
C62
C63
C52
C53
C43
C42
C71
75V

**P1-BOARD (COMPONENT SIDE)**
**TXNP110L32**



**P1-BOARD (FOIL SIDE)**
**TXNP110L32**






## PARTS LOCATION

**P1-BOARD (FOIL SIDE)**

| IC | |
|---|---|
| IC406 | C-3 |
| IC407 | B-5 |
| IC410 | C-1 |
| IC411 | B-3 |
| IC412 | C-4 |
| IC421 | C-1 |

| TARNSISTOR | |
|---|---|
| Q401 | G-3 |
| Q402 | G-2 |
| Q403 | G-2 |
| Q404 | G-3 |
| Q405 | H-3 |
| Q406 | F-2 |
| Q407 | F-2 |
| Q408 | F-2 |
| Q409 | F-2 |
| Q410 | H-1 |
| Q411 | G-2 |
| Q412 | H-1 |
| Q413 | H-1 |
| Q414 | G-1 |
| Q415 | G-1 |
| Q416 | E-4 |
| Q417 | C-5 |
| Q418 | C-6 |
| Q419 | H-3 |
| Q422 | C-5 |
| Q423 | F-3 |
| Q424 | G-3 |
| Q425 | G-3 |
| Q426 | C-3 |
| Q427 | C-5 |
| Q428 | C-5 |
| Q429 | C-5 |
| Q430 | D-2 |
| Q431 | D-2 |
| Q432 | C-5 |
| Q434 | C-1 |
| Q436 | C-1 |
| Q437 | B-4 |

ADDRESS INFORMATION

## PARTS LOCATION

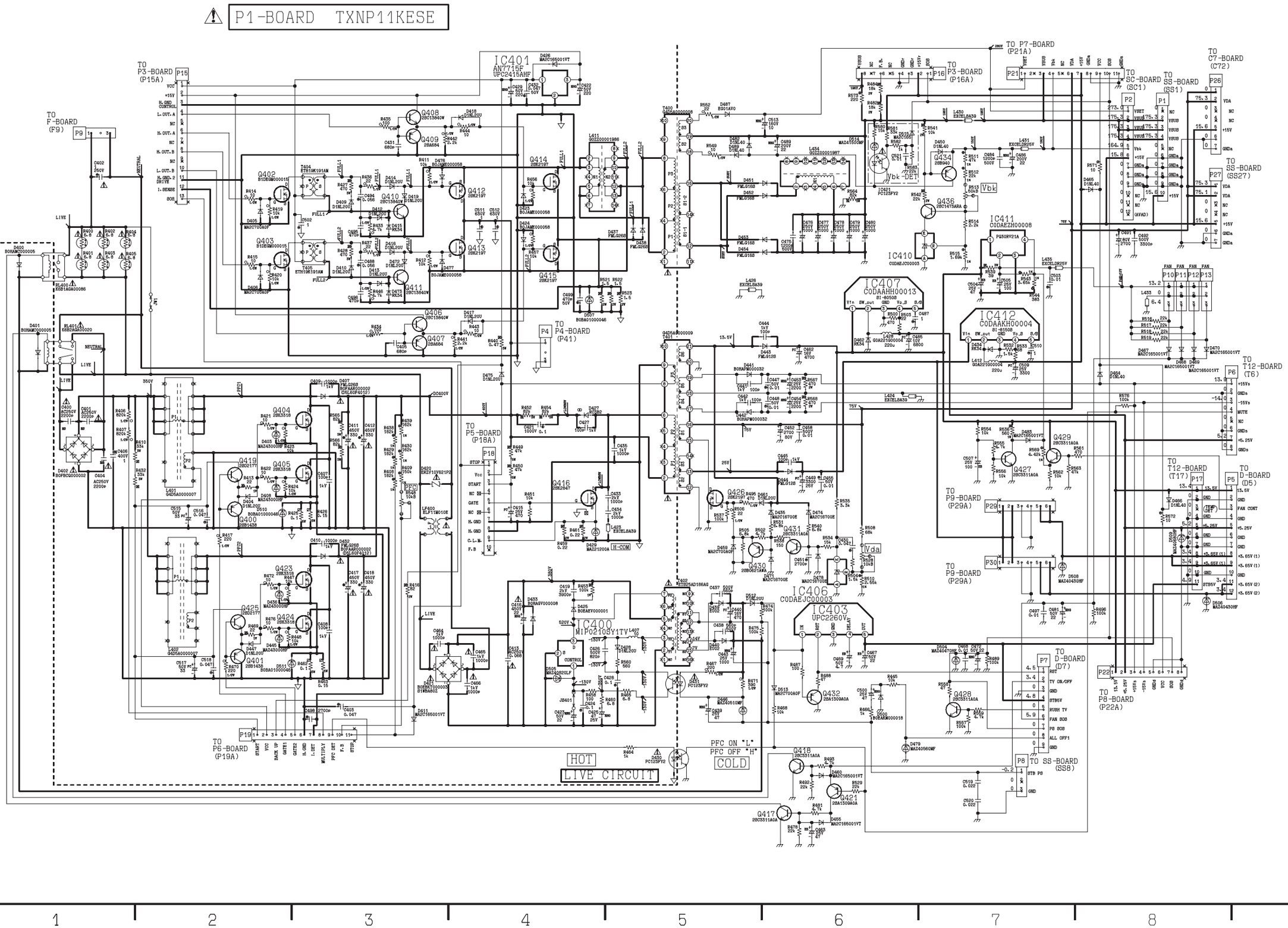
**P1-BOARD (COMPONENT SIDE)**

| IC | |
|---|---|
| IC406 | G-3 |
| IC407 | H-5 |
| IC410 | G-1 |
| IC411 | H-3 |
| IC412 | G-5 |
| IC421 | G-1 |

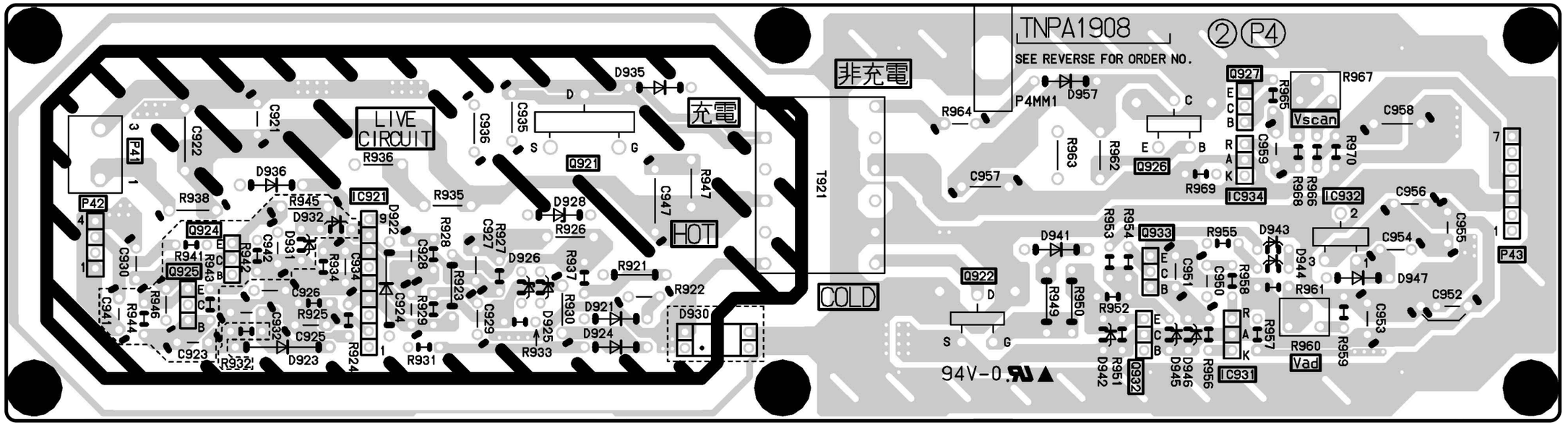
| TRANSISTOR | |
|---|---|
| Q400 | B-3 |
| Q401 | C-3 |
| Q402 | C-2 |
| Q403 | D-2 |
| Q404 | C-3 |
| Q405 | B-3 |
| Q406 | D-2 |
| Q407 | D-2 |
| Q408 | D-2 |
| Q409 | D-2 |
| Q410 | B-2 |
| Q411 | C-2 |
| Q412 | B-1 |
| Q413 | B-1 |
| Q414 | D-1 |
| Q415 | C-1 |
| Q416 | D-4 |
| Q417 | G-5 |
| Q418 | B-3 |
| Q418 | G-6 |
| Q421 | G-5 |
| Q422 | G-5 |
| Q423 | D-3 |
| Q424 | C-3 |
| Q425 | C-3 |
| Q426 | G-3 |
| Q427 | G-5 |
| Q428 | G-5 |
| Q429 | G-5 |
| Q430 | F-3 |
| Q431 | F-3 |
| Q432 | G-5 |
| Q434 | G-1 |
| Q436 | G-1 |
| Q437 | H-4 |

ADDRESS INFORMATION

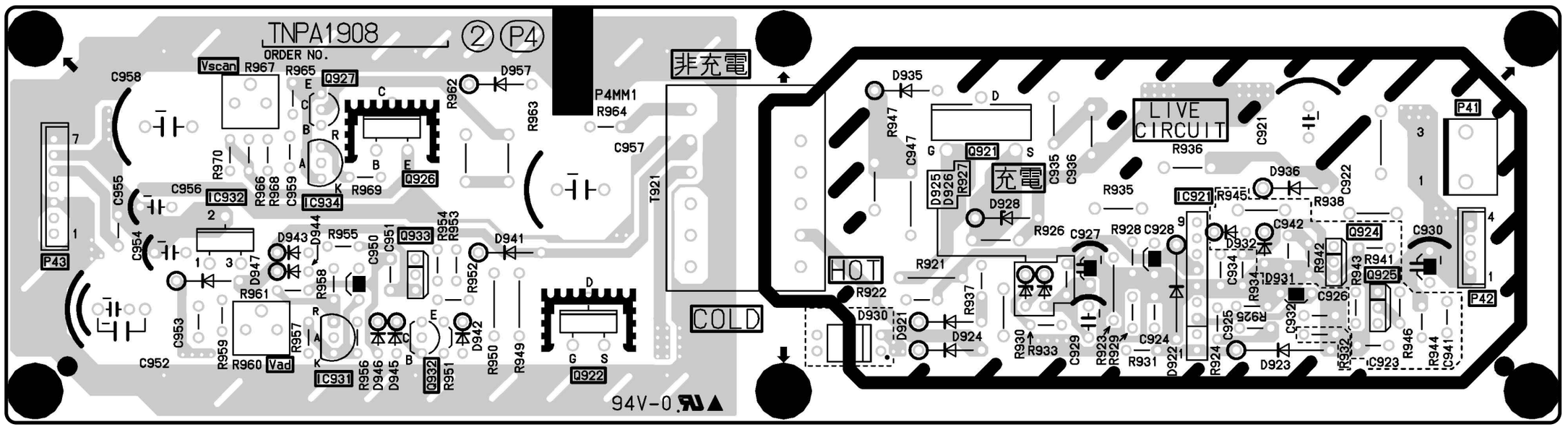
# P1-BOARD TXNP11KESE



**P4-BOARD (FOIL SIDE)**
**TNPA1908**



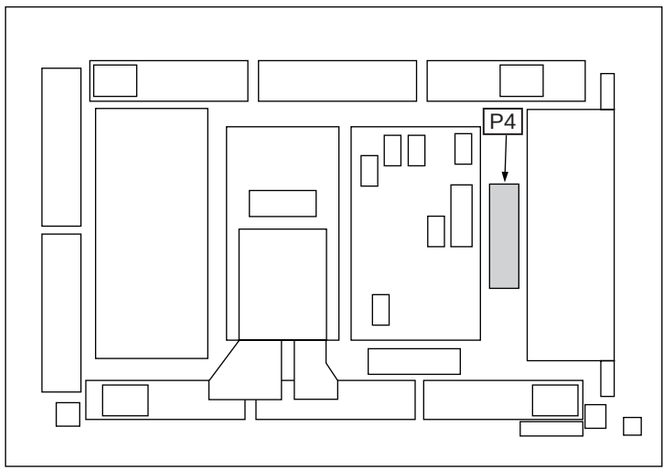

**P4-BOARD (COMPONENT SIDE)**
**TNPA1908**



## PARTS LOCATION

| P4-BOARD (FOIL SIDE) | |
|---|---|
| **IC** | |
| IC921 | C-4 |
| IC931 | G-4 |
| IC932 | H-5 |
| IC934 | G-5 |
| **TRNSISTOR** | |
| Q921 | D-5 |
| Q922 | F-4 |
| Q924 | B-5 |
| Q925 | B-4 |
| Q926 | G-5 |
| Q927 | G-5 |
| Q932 | G-4 |
| Q933 | G-5 |

ADDRESS INFORMATION

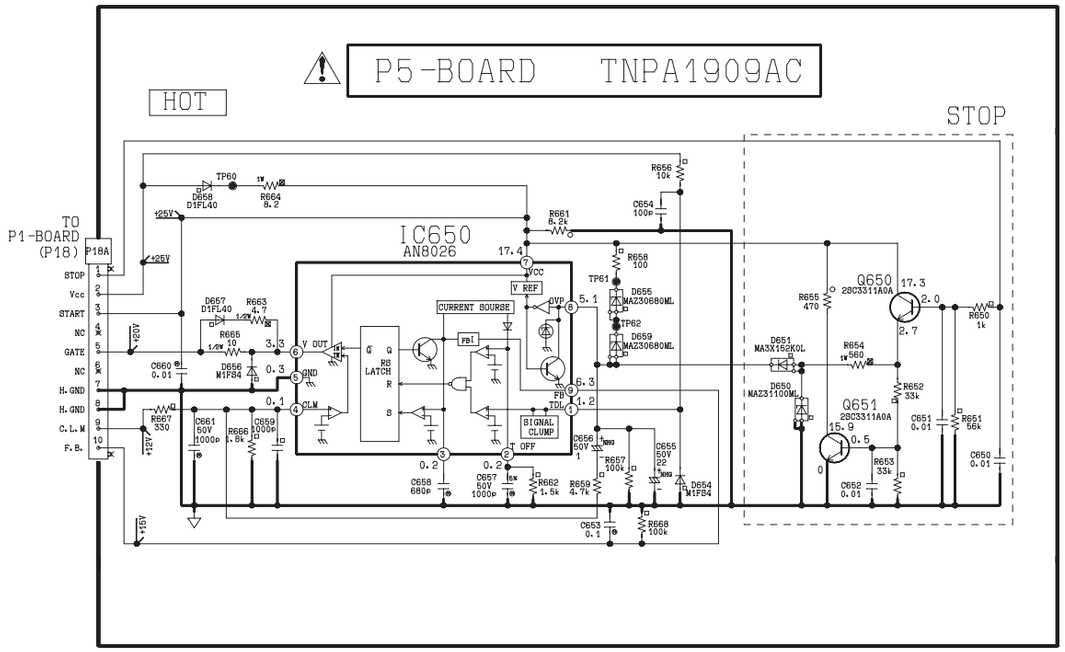



## PARTS LOCATION

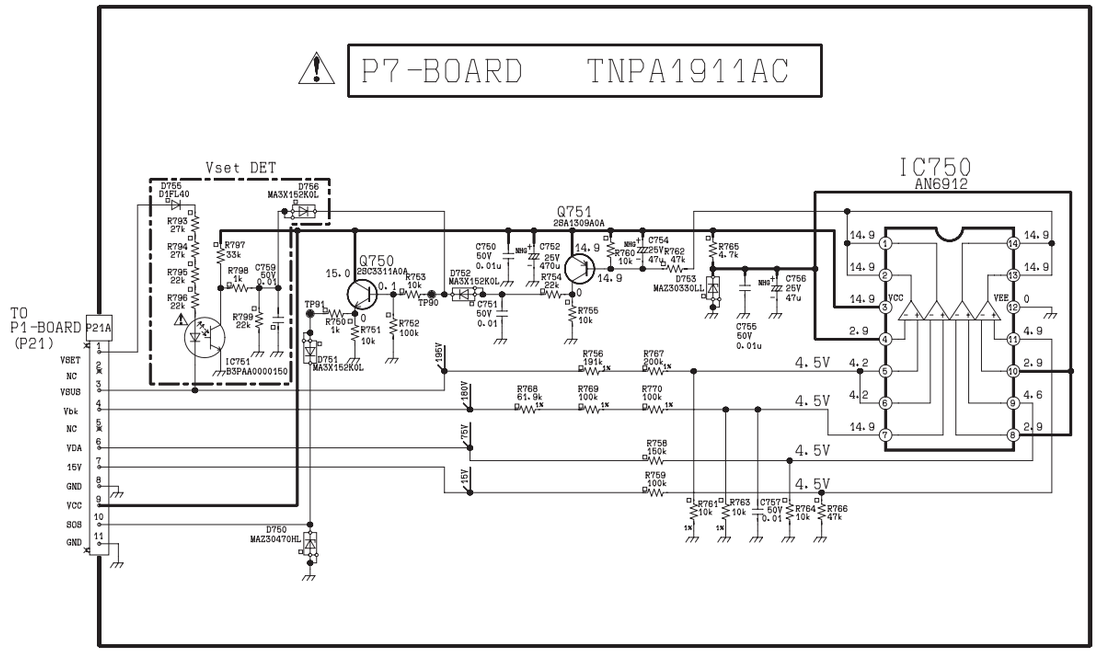
| P4-BOARD (COMPONENT SIDE) | |
|---|---|
| **IC** | |
| IC921 | G-2 |
| IC931 | C-1 |
| IC932 | B-2 |
| IC934 | C-2 |
| **TRANSISTOR** | |
| Q921 | F-2 |
| Q922 | D-1 |
| Q924 | H-2 |
| Q925 | H-2 |
| Q926 | C-2 |
| Q927 | C-3 |
| Q932 | C-1 |
| Q933 | C-2 |

ADDRESS INFORMATION

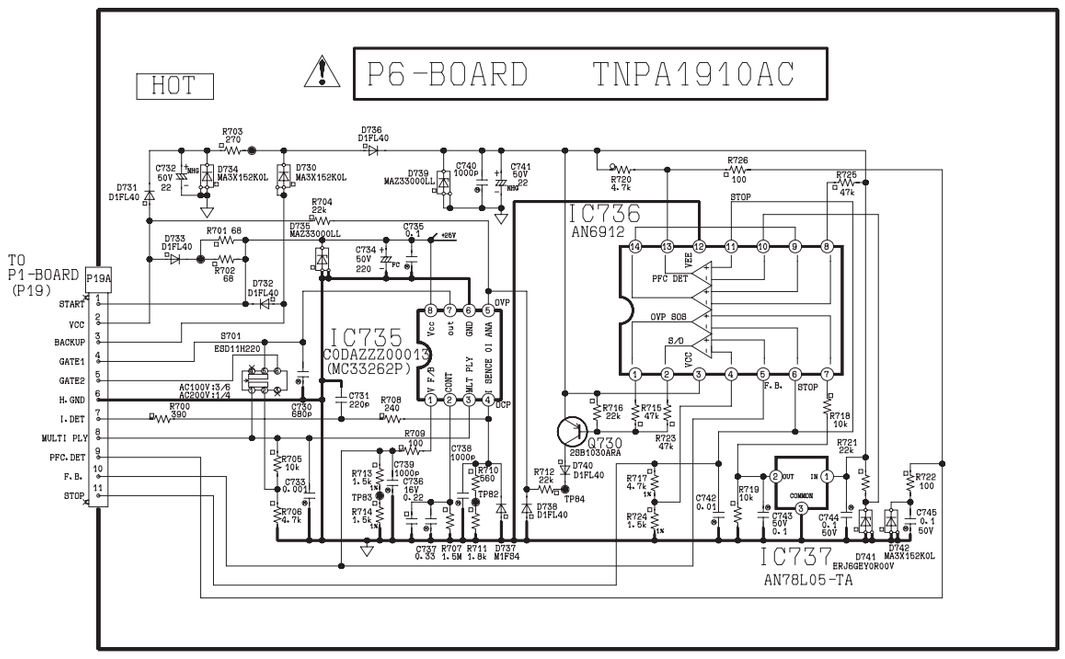
## P5-BOARD TNPA1909AC



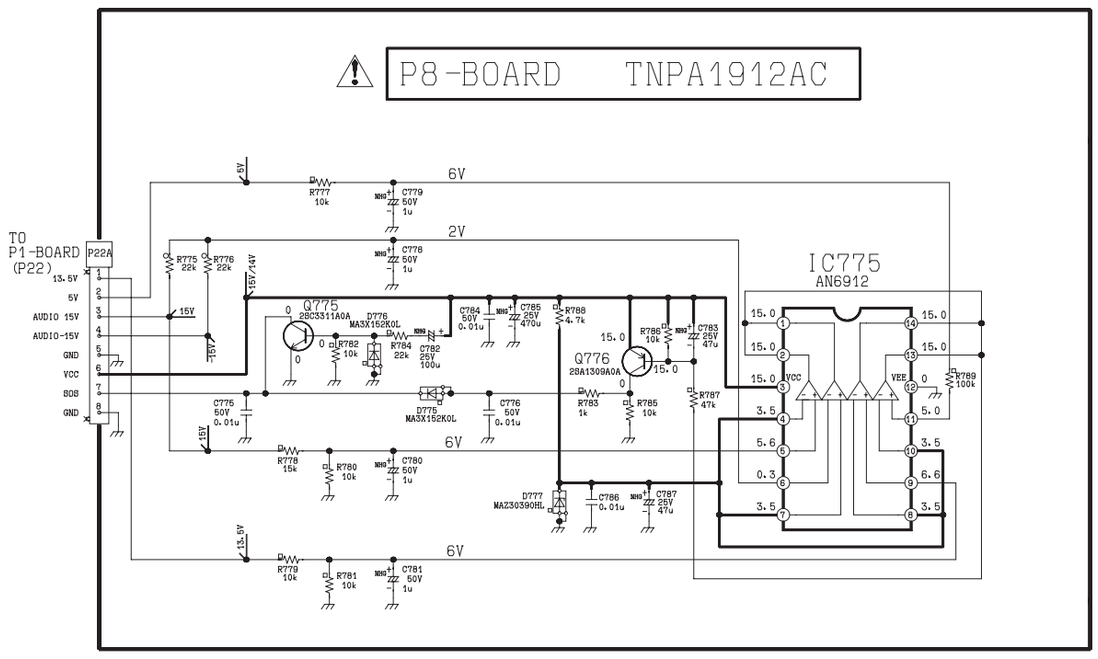

## P7-BOARD TNPA1911AC

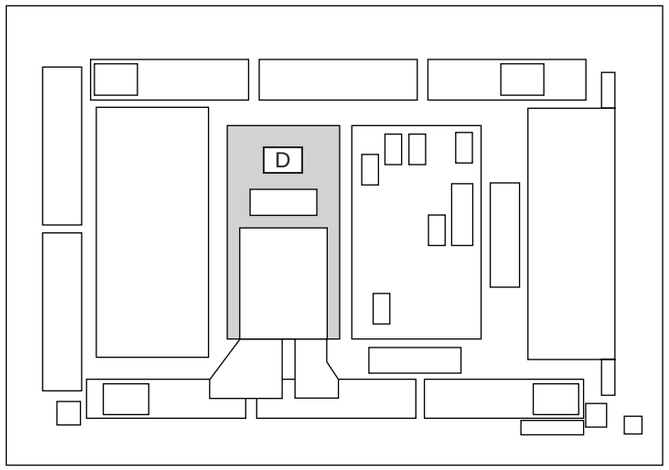



## P6-BOARD TNPA1910AC




## P8-BOARD TNPA1912AC






## Parts Location

**D-BOARD (FOIL SIDE)**

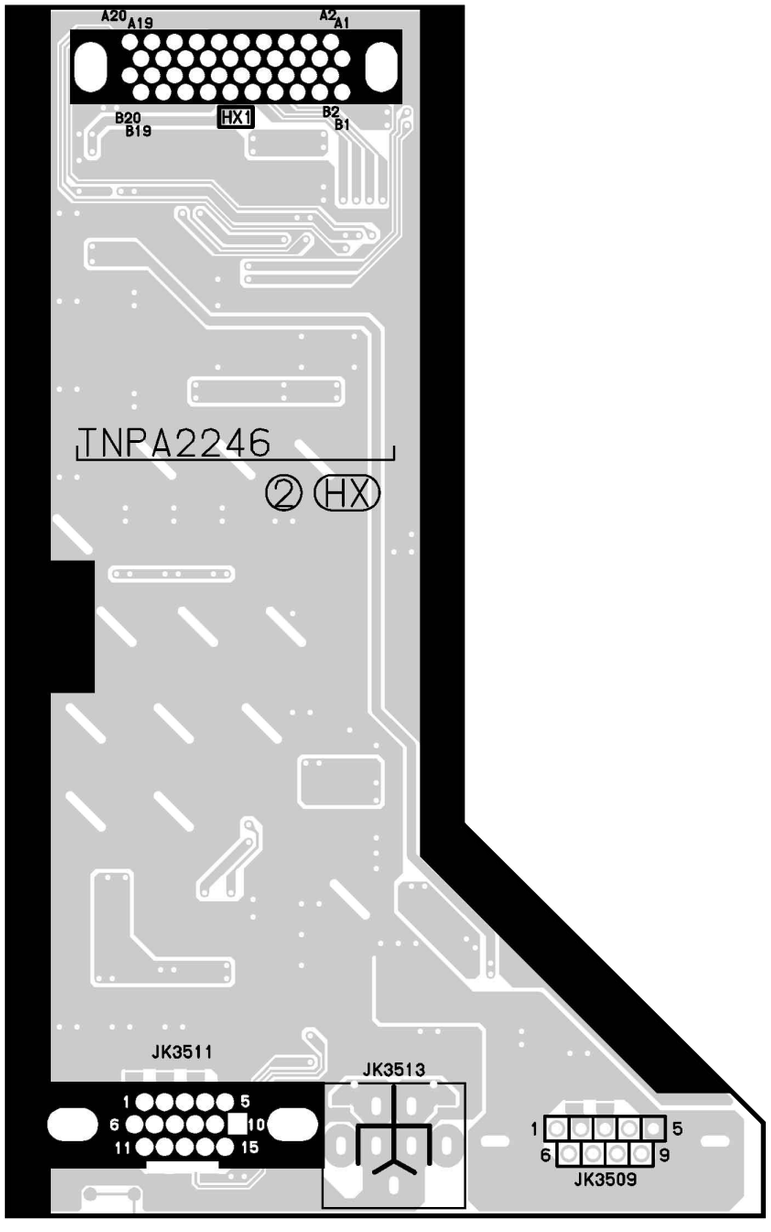
| IC | | IC | | TRANSISTOR | |
|---|---|---|---|---|---|
| IC9000 | B-5 | IC9510 | B-3 | Q8900 | C-5 |
| IC9001 | B-5 | IC9511 | H-3 | Q8901 | H-3 |
| IC9002 | B-5 | IC9512 | B-2 | Q9001 | B-4 |
| IC9004 | B-4 | IC9513 | H-2 | Q9002 | A-4 |
| IC9005 | B-4 | IC9516 | D-2 | Q9003 | B-4 |
| IC9006 | B-5 | IC9520 | B-3 | Q9005 | B-4 |
| IC9019 | B-4 | IC9521 | H-3 | Q9006 | A-4 |
| IC9020 | B-4 | IC9552 | F-2 | Q9007 | B-4 |
| IC9021 | B-5 | IC9555 | H-2 | Q9009 | B-5 |
| IC9036 | D-5 | IC9556 | F-2 | Q9010 | A-5 |
| IC9047 | B-4 | IC9557 | G-2 | Q9011 | B-5 |
| IC9048 | E-5 | IC9558 | B-2 | Q9013 | G-4 |
| IC9057 | G-2 | IC9559 | G-2 | Q9021 | C-4 |
| IC9061 | E-1 | IC9560 | B-3 | Q9050 | E-5 |
| IC9200 | D-4 | IC9561 | H-3 | Q9051 | D-5 |
| IC9201 | D-3 | IC9564 | B-3 | Q9901 | H-4 |
| IC9206 | D-5 | IC9565 | H-3 | Q9902 | H-5 |
| IC9209 | C-5 | IC9702 | G-5 | Q9903 | H-5 |
| IC9213 | E-5 | IC9703 | G-4 | | |
| IC9214 | E-5 | IC9704 | G-4 | | |
| IC9217 | E-5 | IC9705 | G-3 | | |
| IC9250 | G-4 | IC9707 | D-4 | | |
| IC9251 | F-3 | IC9907 | H-5 | | |
| IC9259 | F-5 | IC9909 | H-4 | | |
| IC9404 | E-3 | | | | |
| IC9454 | G-3 | | | | |
| IC9502 | D-2 | | | | |
| IC9503 | C-2 | | | | |
| IC9504 | B-2 | | | | |
| IC9506 | D-2 | | | | |
| IC9507 | E-2 | | | | |

## Parts Location

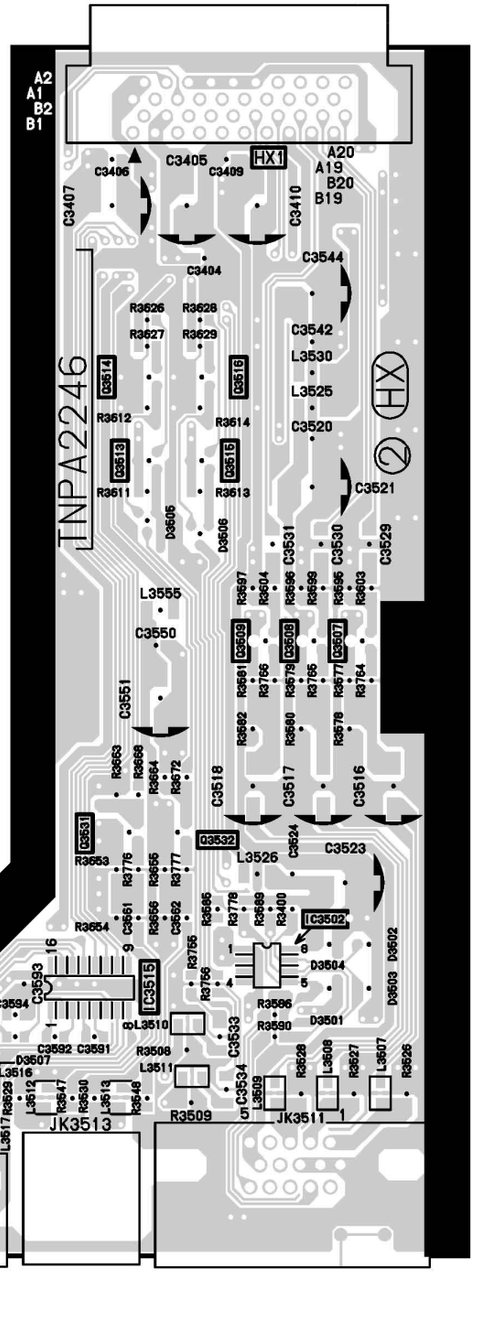
**D-BOARD (COMPONENT SIDE)**

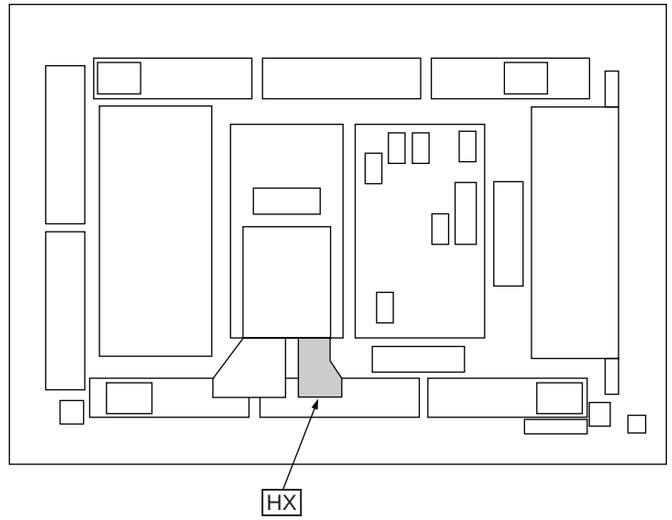
| IC | | IC | | Q9017 | G-5 |
|---|---|---|---|---|---|
| IC9003 | H-3 | IC9451 | D-3 | Q9018 | G-4 |
| IC9007 | G-4 | IC9452 | C-3 | Q9019 | D-5 |
| IC9008 | G-4 | IC9453 | C-3 | Q9020 | D-5 |
| IC9009 | G-5 | IC9500 | E-2 | Q9022 | C-4 |
| IC9010 | H-3 | IC9501 | F-2 | Q9701 | I-5 |
| IC9012 | H-4 | IC9505 | B-2 | **TPD** | |
| IC9014 | F-3 | IC9508 | H-1 | | |
| IC9018 | G-3 | IC9509 | B-1 | TPD1 | E-4 |
| IC9022 | H-3 | IC9551 | D-2 | TPD2 | D-4 |
| IC9023 | H-3 | IC9554 | H-2 | TPD3 | G-4 |
| IC9024 | D-5 | IC9562 | G-2 | TPD4 | E-4 |
| IC9058 | C-2 | IC9563 | B-2 | TPD5 | F-3 |
| IC9093 | F-5 | IC9701 | B-3 | TPD6 | D-3 |
| IC9202 | F-5 | IC9706 | C-5 | TPD7 | D-3 |
| IC9204 | F-5 | IC9708 | B-3 | TPD8 | F-3 |
| IC9207 | E-5 | IC9801 | G-5 | TPD9 | F-2 |
| IC9210 | E-5 | IC9802 | G-5 | TPD10 | D-3 |
| IC9211 | E-5 | IC9803 | G-5 | TPD11 | F-2 |
| IC9212 | E-5 | IC9804 | G-5 | TPD12 | D-3 |
| IC9215 | E-5 | IC9900 | B-5 | TPD14 | C-5 |
| IC9223 | E-5 | IC9901 | A-4 | TPD20 | H-5 |
| IC9225 | G-3 | IC9902 | B-5 | TPD21 | H-4 |
| IC9226 | E-3 | IC9903 | B-5 | TPD22 | H-4 |
| IC9254 | D-4 | IC9904 | B-5 | TPD30 | G-5 |
| IC9302 | G-4 | IC9905 | B-4 | | |
| IC9352 | E-4 | IC9906 | B-4 | | |
| IC9400 | F-3 | IC9908 | C-5 | | |
| IC9401 | G-3 | **TRANSISTOR** | | | |
| IC9402 | E-3 | Q9014 | B-4 | | |
| IC9403 | E-3 | Q9015 | F-5 | | |
| IC9450 | C-3 | Q9016 | C-4 | | |

## HX-BOARD(FOIL SIDE)
## TZTNP020JAS




## HX-BOARD(COMPONENT SIDE)
## TZTNP020JAS

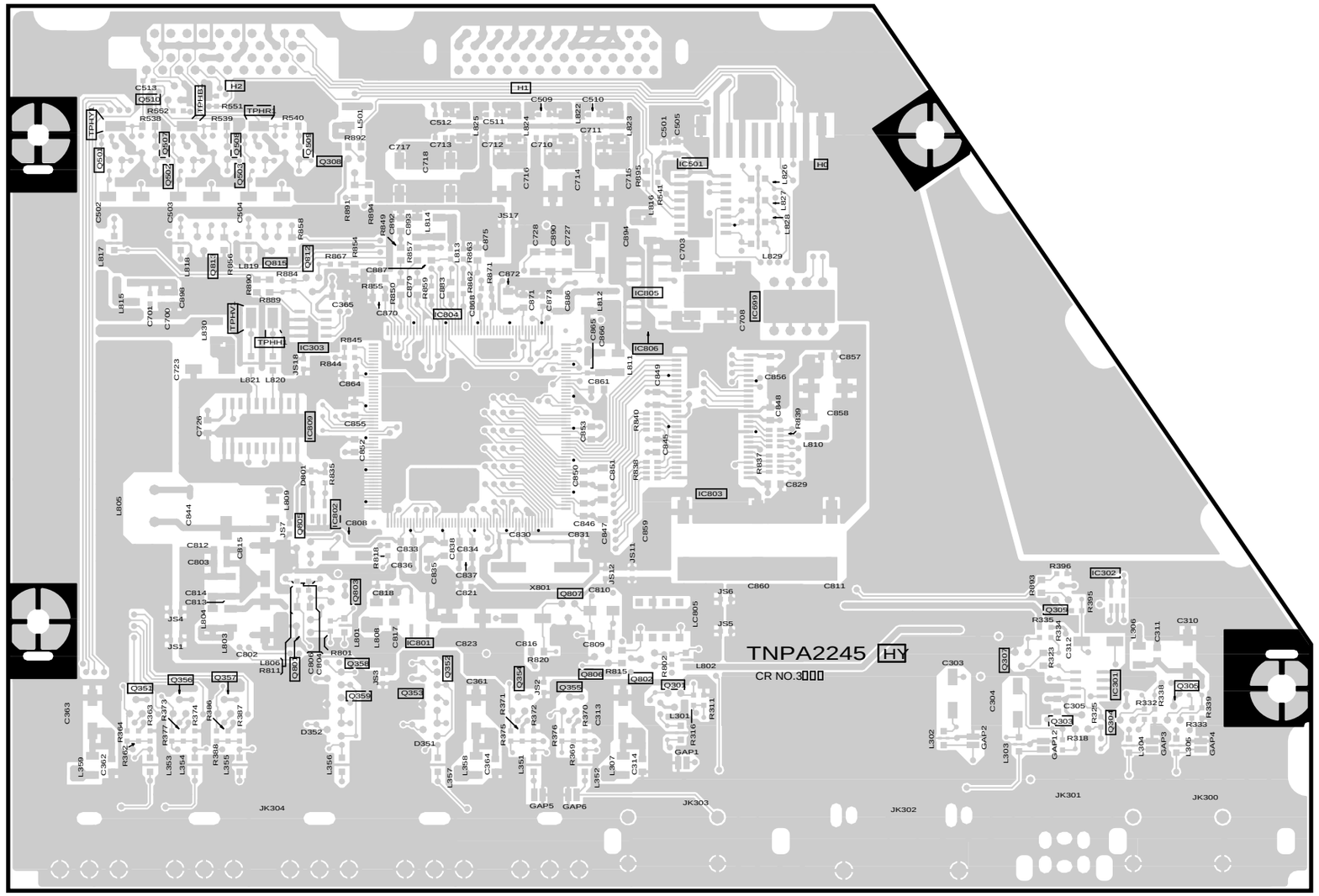


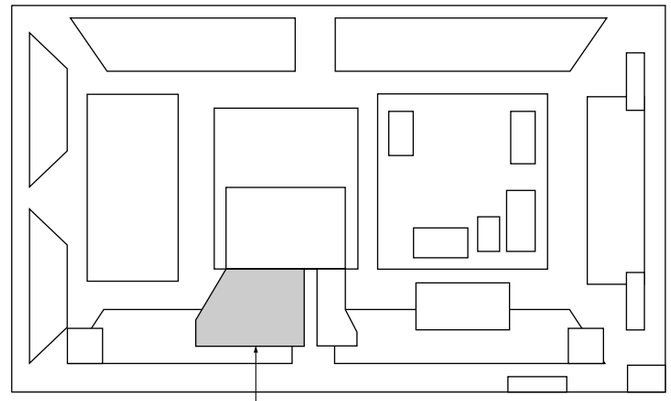




### Parts Location

| HX-BOARD | | | |
|---|---|---|---|
| IC | | TRANSISTOR | |
| IC3502 | F-2 | Q3507 | F-3 |
| IC3515 | E-2 | Q3508 | F-3 |
| | | Q3509 | F-3 |
| | | Q3513 | E-4 |
| | | Q3514 | E-4 |
| | | Q3515 | F-4 |
| | | Q3516 | F-4 |
| | | Q3531 | E-3 |
| | | Q3532 | F-3 |

## TY-42TM4Y (COMPONENT SIDE)
## TNPA2245



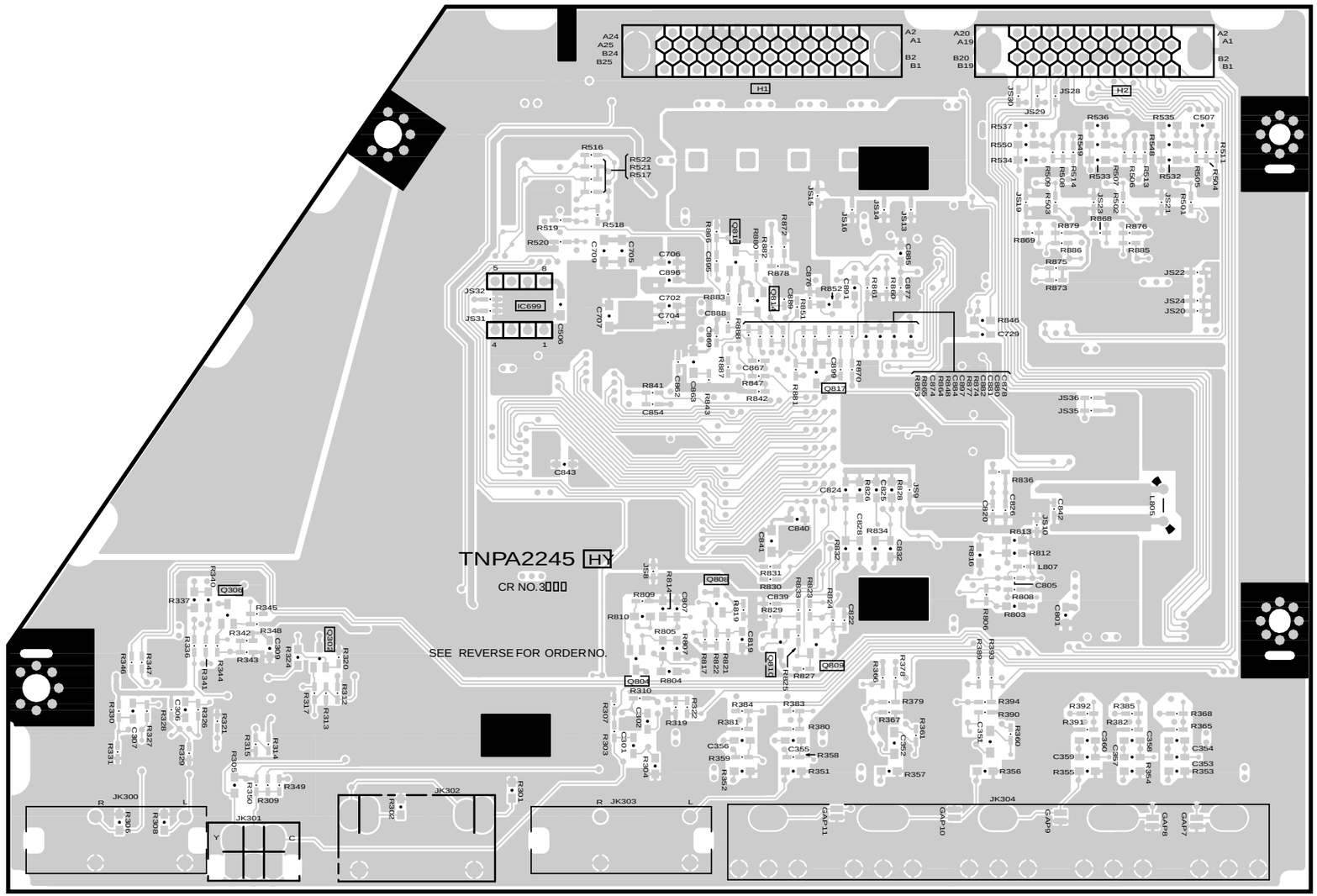

### Parts Location

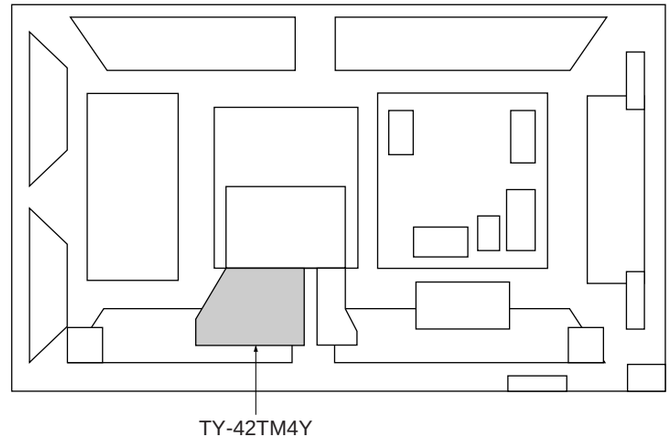
| TY-42TM4Y (COMPONENT SIDE) | | | | | |
|---|---|---|---|---|---|
| **IC** | | **TRANSISTOR** | | | |
| IC3301 | E-2 | Q3301 | D-1 | Q3507 | A-4 |
| IC3302 | E-3 | Q3303 | E-2 | Q3508 | B-4 |
| IC3303 | B-4 | Q3304 | E-2 | Q3509 | B-4 |
| IC3501 | D-4 | Q3305 | F-2 | Q3510 | A-5 |
| IC3699 | D-4 | Q3307 | E-2 | Q3801 | B-2 |
| IC3801 | B-2 | Q3308 | B-4 | Q3802 | C-2 |
| IC3802 | B-3 | Q3309 | E-2 | Q3803 | B-2 |
| IC3803 | D-2 | Q3351 | A-2 | Q3805 | B-3 |
| IC3804 | C-4 | Q3352 | C-2 | Q3806 | C-2 |
| IC3805 | C-4 | Q3353 | B-2 | Q3807 | C-2 |
| IC3806 | C-4 | Q3354 | C-2 | Q3812 | B-4 |
| IC3809 | B-3 | Q3355 | C-2 | Q3813 | B-4 |
| | | Q3356 | A-2 | Q3815 | B-4 |
| | | Q3357 | B-2 | **TP** | |
| | | Q3358 | B-2 | TPHB | B-5 |
| | | Q3369 | B-2 | TPHH | B-4 |
| | | Q3501 | A-4 | TPHR | B-5 |
| | | Q3502 | A-4 | TPHV | B-4 |
| | | Q3503 | B-4 | TPHY | A-4 |

A B C D E F G H I

1 2 3 4 5 6

**TY-42TM4Y (FOIL SIDE)**
**TNPA2245**

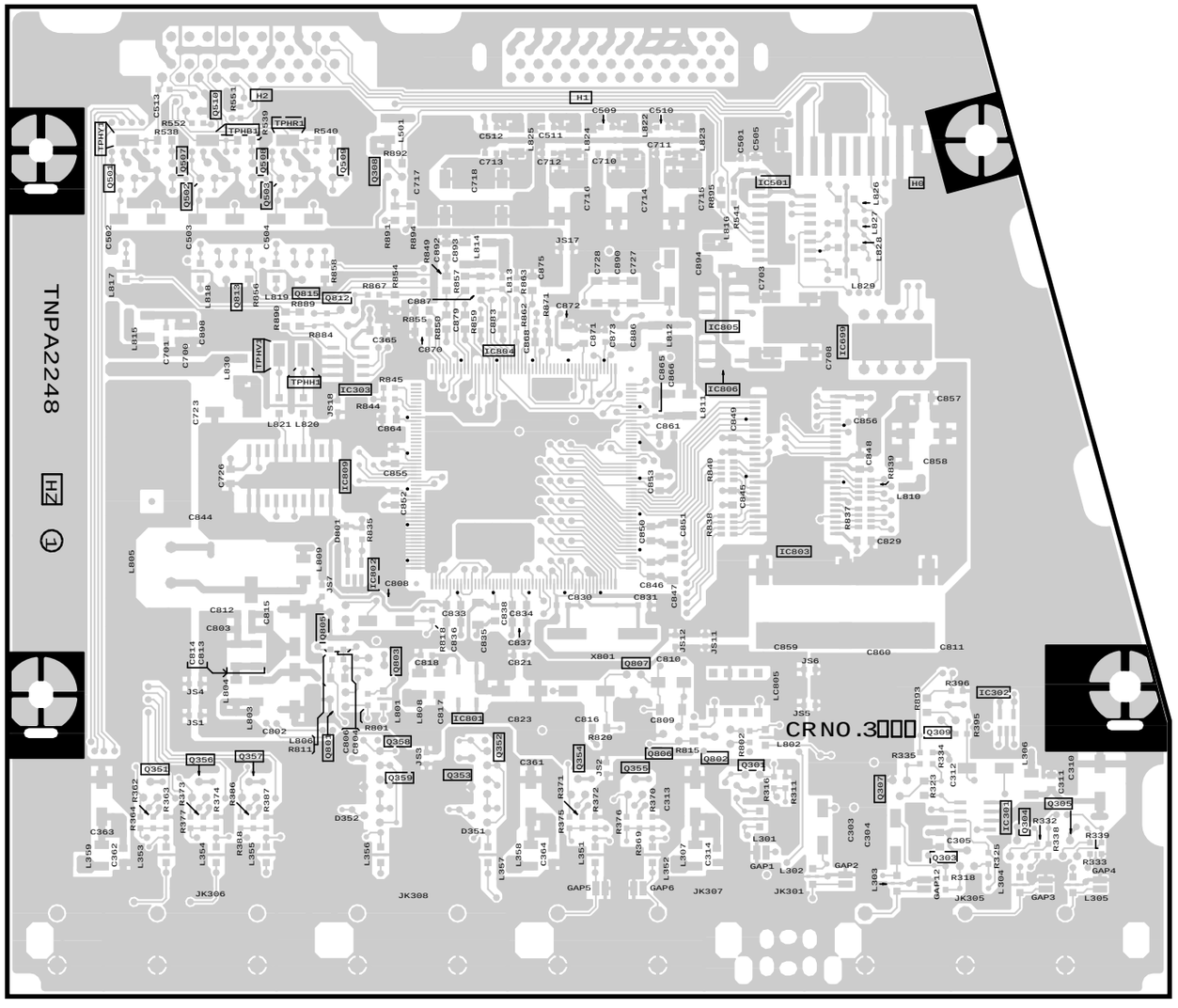


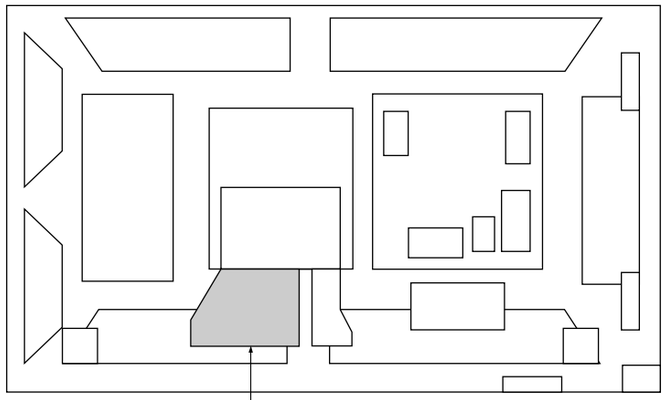




**Parts Location**

| TY-42TM4Y (FOIL SIDE) | | | |
|---|---|---|---|
| **IC** | | **TRANSISTOR** | |
| IC3699 | C-4 | Q3302 | B-2 |
| | | Q3306 | B-2 |
| | | Q3804 | C-2 |
| | | Q3808 | D-2 |
| | | Q3809 | D-2 |
| | | Q3810 | D-2 |
| | | Q3814 | D-4 |
| | | Q3816 | D-4 |
| | | Q3817 | D-3 |

## TY-42TM4Z (COMPONENT SIDE)
## TNPA2248

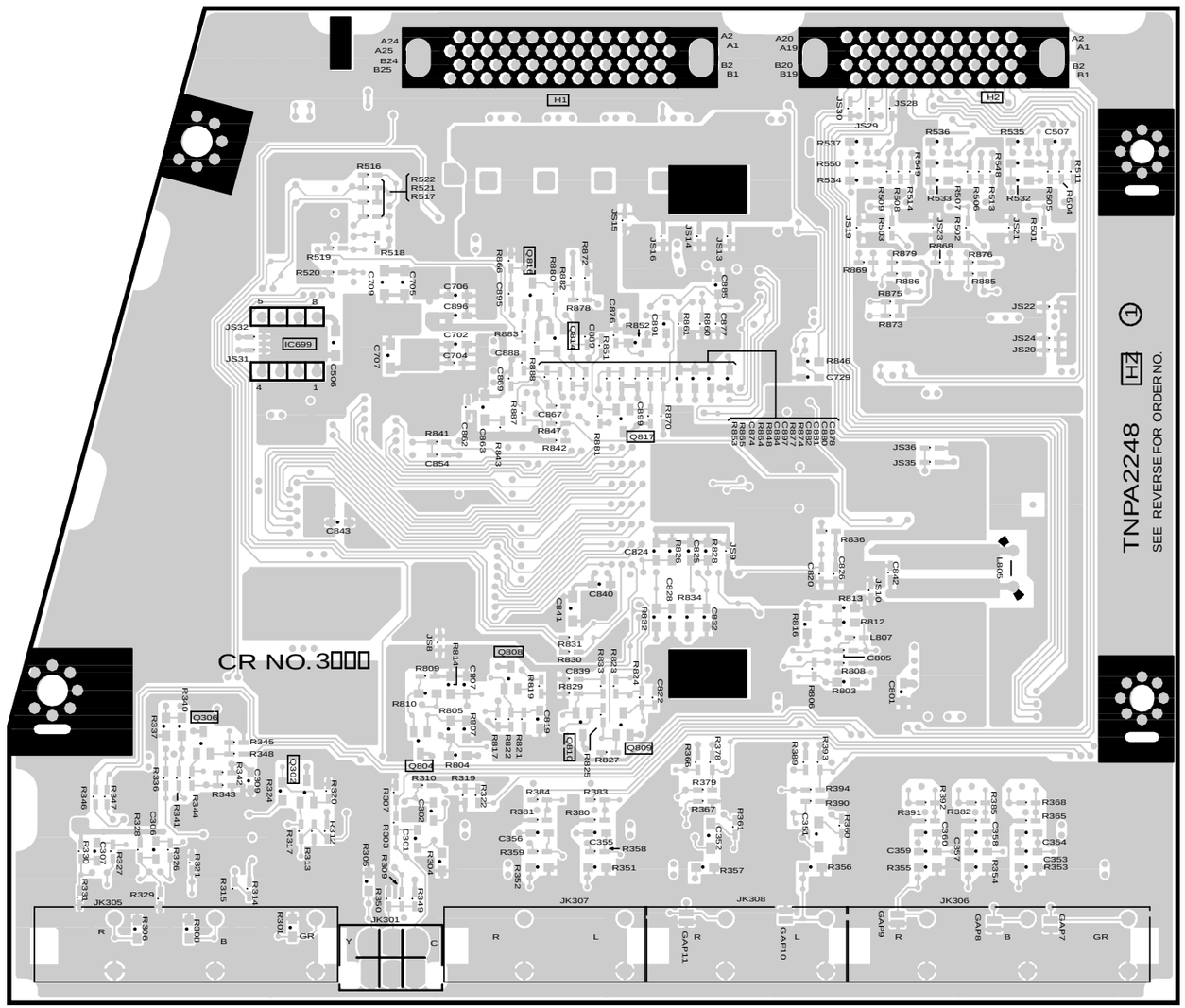


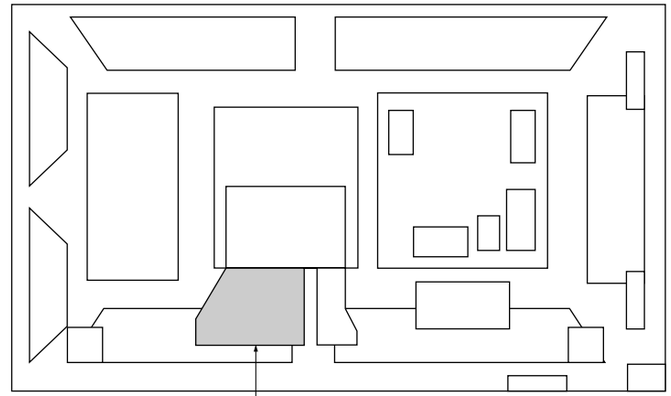




### Parts Location

| TY-42TM4Z (COMPONENT SIDE) | | | | | |
|---|---|---|---|---|---|
| **IC** | | **TRANSISTOR** | | Q3507 | A-4 |
| IC3301 | E-2 | Q3301 | D-2 | Q3508 | B-4 |
| IC3301 | E-2 | Q3303 | D-2 | Q3509 | B-4 |
| IC3302 | D-2 | Q3304 | E-2 | Q3510 | B-5 |
| IC3303 | B-4 | Q3305 | E-2 | Q3801 | B-2 |
| IC3501 | D-4 | Q3307 | D-2 | Q3802 | C-2 |
| IC3699 | D-4 | Q3308 | B-4 | Q3803 | B-2 |
| IC3801 | B-2 | Q3309 | D-2 | Q3805 | B-3 |
| IC3802 | B-3 | Q3351 | A-2 | Q3806 | C-2 |
| IC3803 | D-3 | Q3352 | C-2 | Q3807 | C-2 |
| IC3804 | C-4 | Q3353 | B-2 | Q3812 | B-4 |
| IC3805 | C-4 | Q3354 | C-2 | Q3813 | B-4 |
| IC3806 | C-4 | Q3355 | C-2 | Q3815 | B-4 |
| IC3809 | B-3 | Q3356 | A-2 | **TP** | |
| | | Q3357 | B-2 | | |
| | | Q3358 | B-2 | TPHB1 | B-5 |
| | | Q3359 | B-2 | TPHH1 | B-4 |
| | | Q3501 | A-4 | TPHR1 | B-5 |
| | | Q3502 | A-4 | TPHV1 | B-4 |
| | | Q3503 | B-4 | TPHY1 | A-4 |

**TY-42TM4Z (FOIL SIDE)**
**TNPA2248**

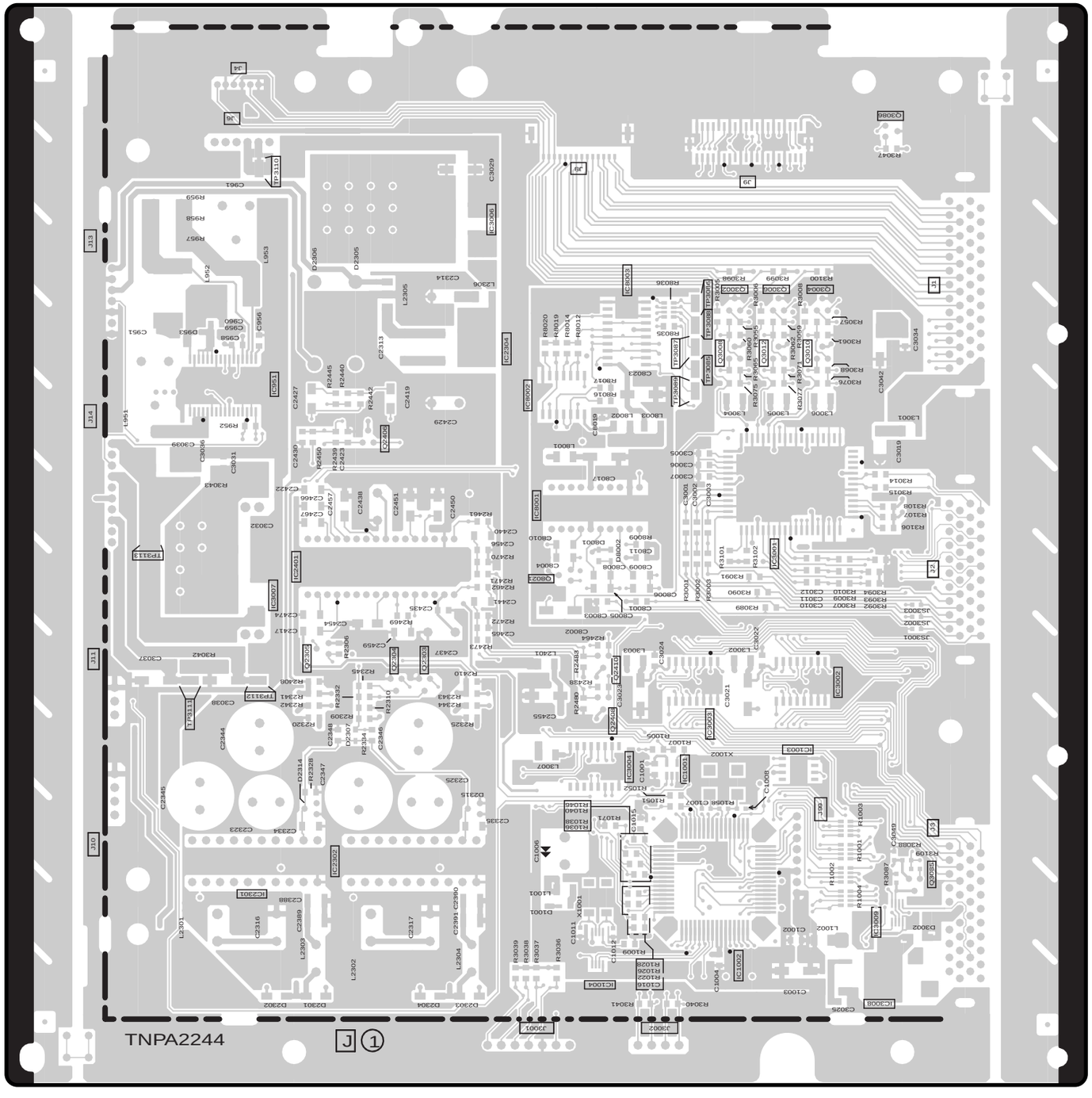


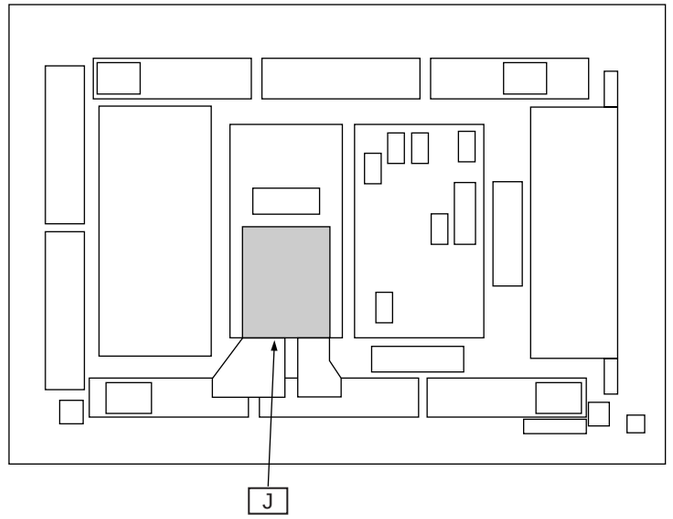




**Parts Location**

| TY-42TM4Z (FOIL SIDE) | | | |
|---|---|---|---|
| **IC** | | **TRANSISTOR** | |
| IC3699 | B-4 | Q3302 | B-2 |
| | | Q3306 | A-2 |
| | | Q3804 | B-2 |
| | | Q3808 | C-3 |
| | | Q3809 | C-2 |
| | | Q3810 | C-2 |
| | | Q3814 | C-4 |
| | | Q3816 | C-4 |
| | | Q3817 | C-3 |

# J-BOARD(COMPONENT SIDE)
# TNPA2244

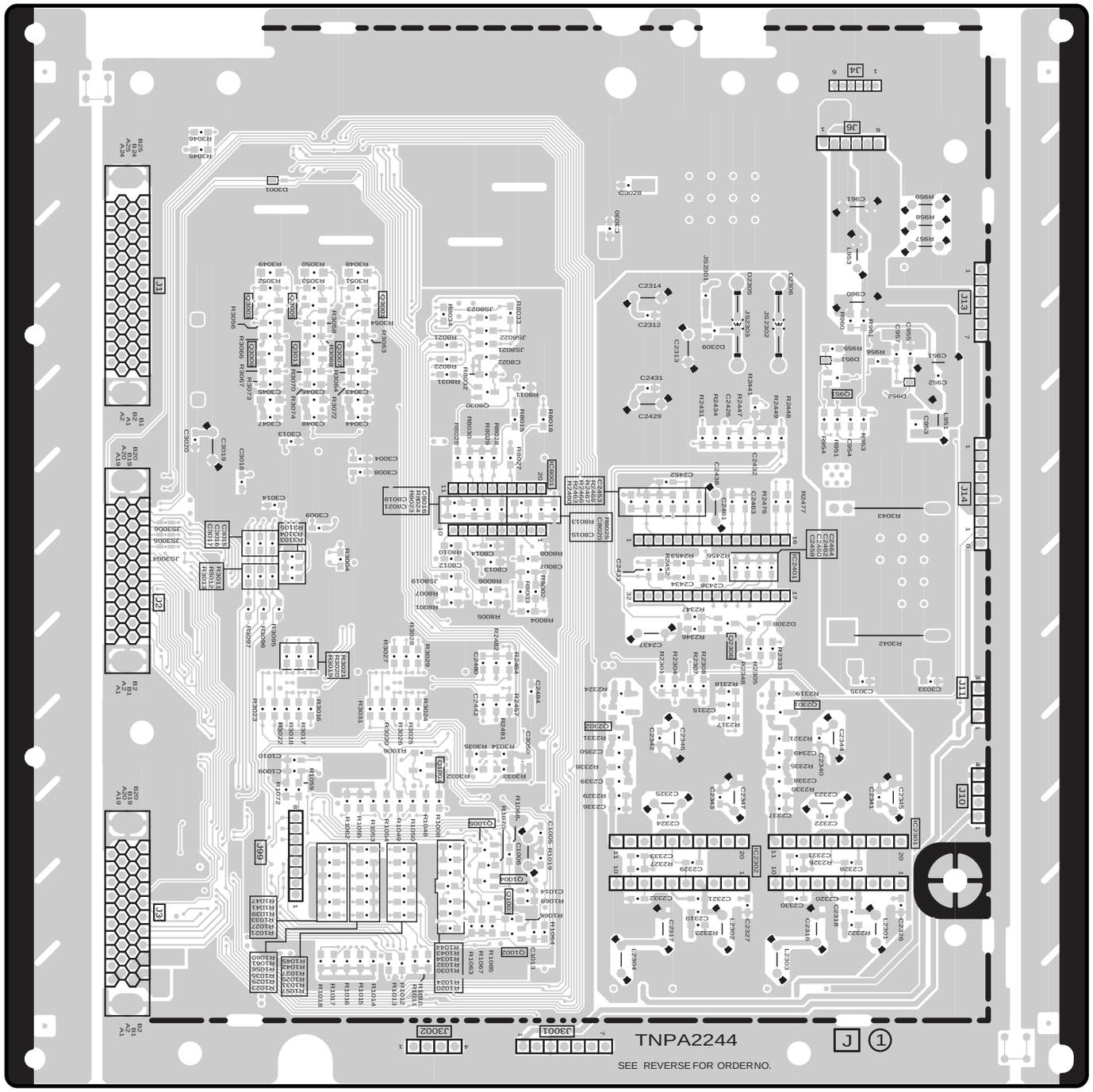


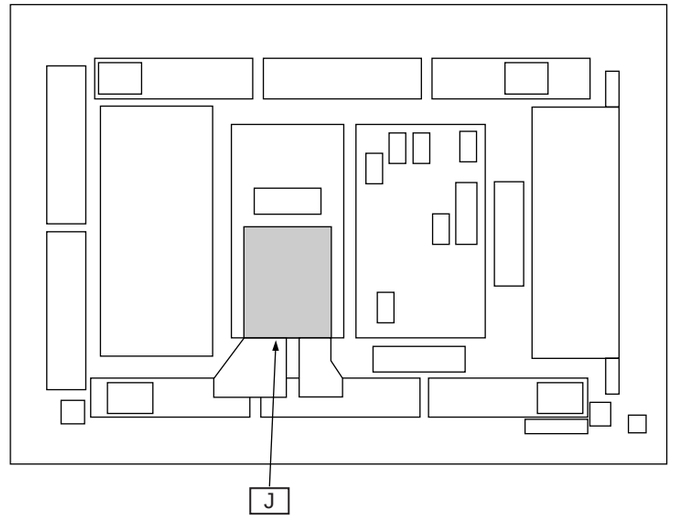




## Parts Location

| J-BOARD (COMPONENT SIDE) | | | | | |
|---|---|---|---|---|---|
| **IC** | | **TRANSISTOR** | | **TP** | |
| IC951 | B-4 | Q2303 | C-3 | TP3085 | D-4 |
| IC1001 | D-2 | Q2304 | C-3 | TP3086 | D-5 |
| IC1002 | E-1 | Q2305 | C-3 | TP3087 | D-4 |
| IC1003 | E-3 | Q2406 | C-4 | TP3088 | D-4 |
| IC1004 | D-1 | Q2408 | D-3 | TP3089 | D-4 |
| IC2301 | B-2 | Q2410 | D-3 | TP3110 | B-5 |
| IC2302 | C-2 | Q3002 | E-5 | TP3111 | B-3 |
| IC2304 | C-4 | Q3004 | E-5 | TP3112 | B-3 |
| IC2401 | C-3 | Q3006 | E-5 | TP3113 | B-3 |
| IC3001 | E-3 | Q3008 | E-4 | | |
| IC3002 | E-3 | Q3010 | E-4 | | |
| IC3003 | D-3 | Q3012 | E-4 | | |
| IC3004 | D-2 | Q3085 | E-2 | | |
| IC3006 | C-5 | Q3086 | E-5 | | |
| IC3007 | B-3 | Q8021 | D-3 | | |
| IC3008 | E-1 | | | | |
| IC3009 | E-2 | | | | |
| IC8001 | D-4 | | | | |
| IC8002 | D-4 | | | | |
| IC8003 | D-5 | | | | |

# J-BOARD(FOIL SIDE)
# TNPA2244

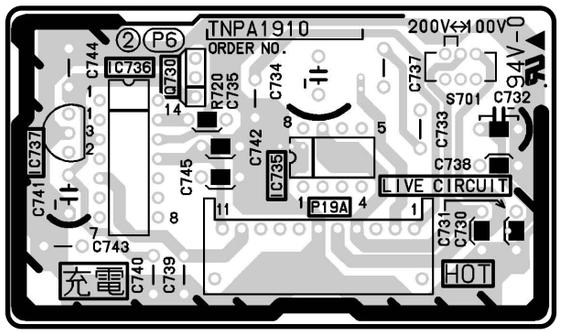


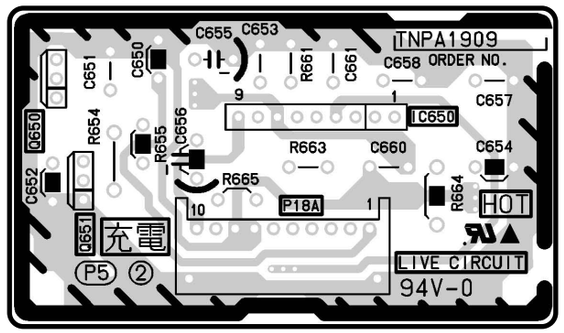

## Parts Location

| J-BOARD (FOIL SIDE) | | | |
|---|---|---|---|
| **IC** | | **TRANSISTOR** | |
| IC2301 | E-2 | Q951 | E-4 |
| IC2302 | E-2 | Q1001 | C-2 |
| IC2401 | E-3 | Q1002 | C-2 |
| IC8001 | D-4 | Q1003 | C-2 |
| | | Q1004 | C-2 |
| | | Q1005 | C-2 |
| | | Q2301 | E-3 |
| | | Q2302 | D-3 |
| | | Q2306 | D-3 |
| | | Q3001 | C-5 |
| | | Q3003 | B-5 |
| | | Q3005 | C-5 |
| | | Q3007 | C-4 |
| | | Q3009 | B-2 |
| | | Q3011 | C-4 |

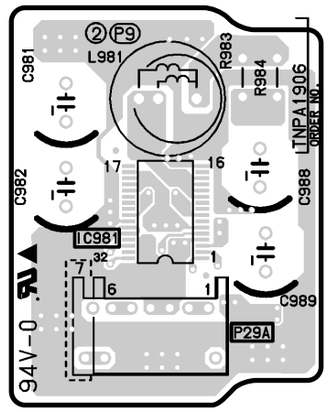
**P6-BOARD (COMPONENT SIDE)**
**TNPA1910**



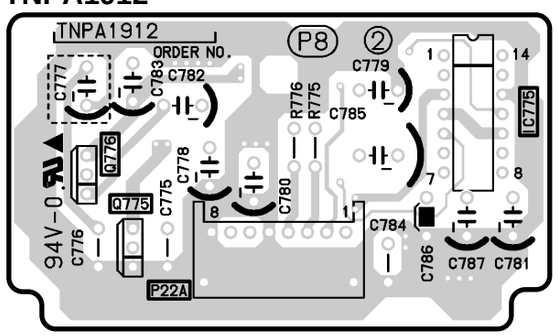

**P5-BOARD (COMPONENT SIDE)**
**TNPA1909**



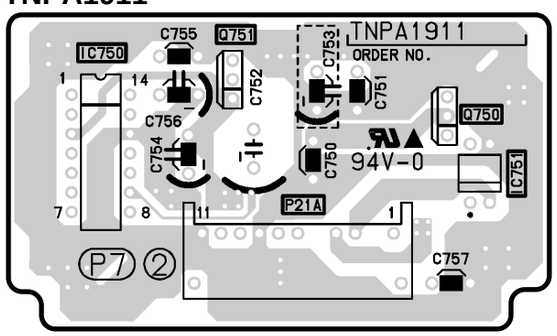

**P9-BOARD (COMPONENT SIDE)**
**TNPA1906**



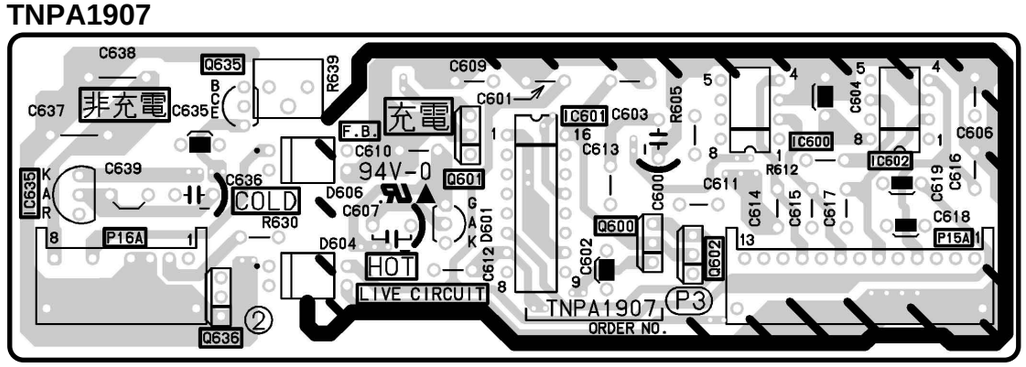

**P8-BOARD (COMPONENT SIDE)**
**TNPA1912**

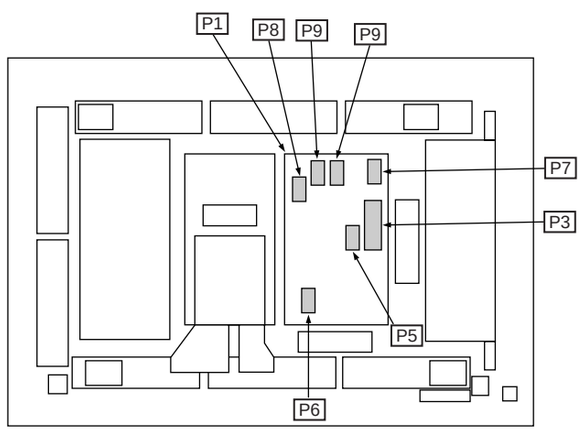



**P7-BOARD (COMPONENT SIDE)**
**TNPA1911**

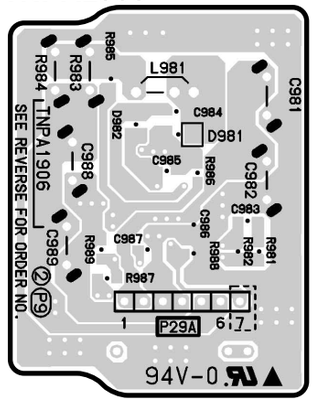



**P3-BOARD (COMPONENT SIDE)**
**TNPA1907**

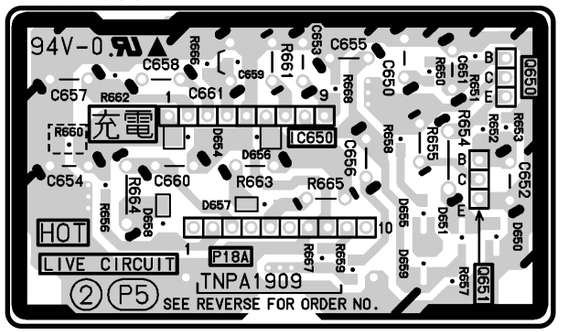


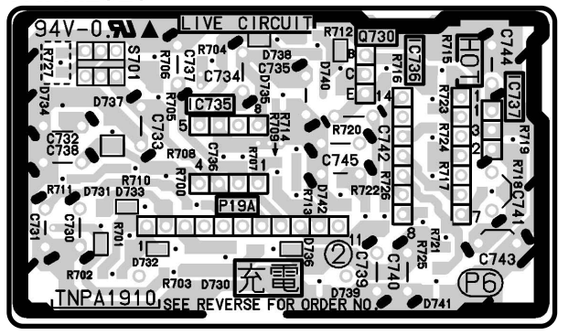
**P9-BOARD (FOIL SIDE)**
**TNPA1906**



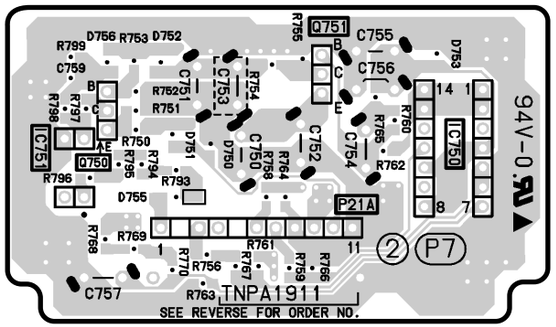

**P5-BOARD (FOIL SIDE)**
**TNPA1909**



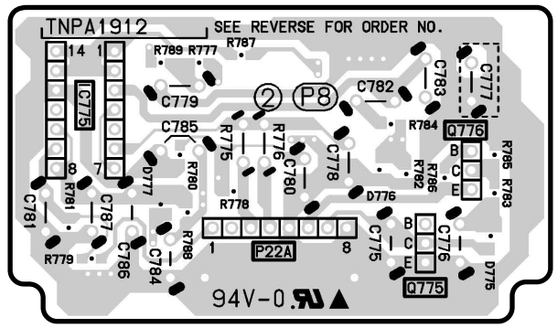

**P6-BOARD (FOIL SIDE)**
**TNPA1910**

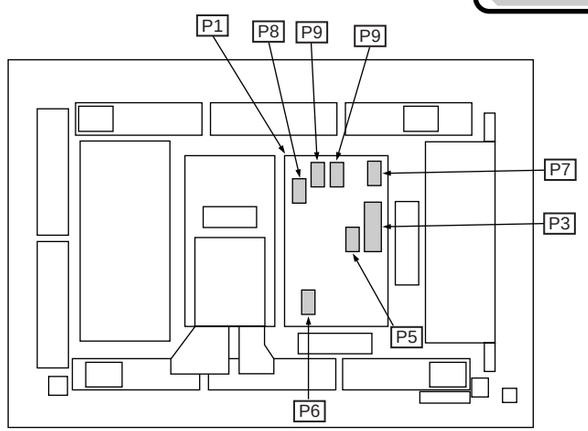



**P7-BOARD (FOIL SIDE)**
**TNPA1911**

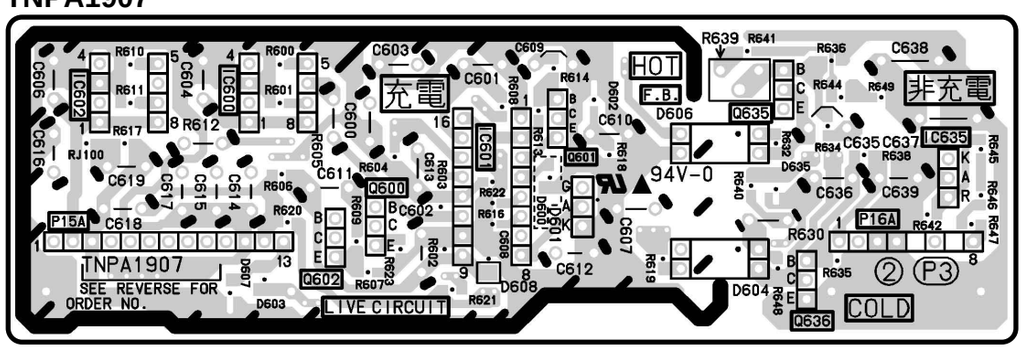


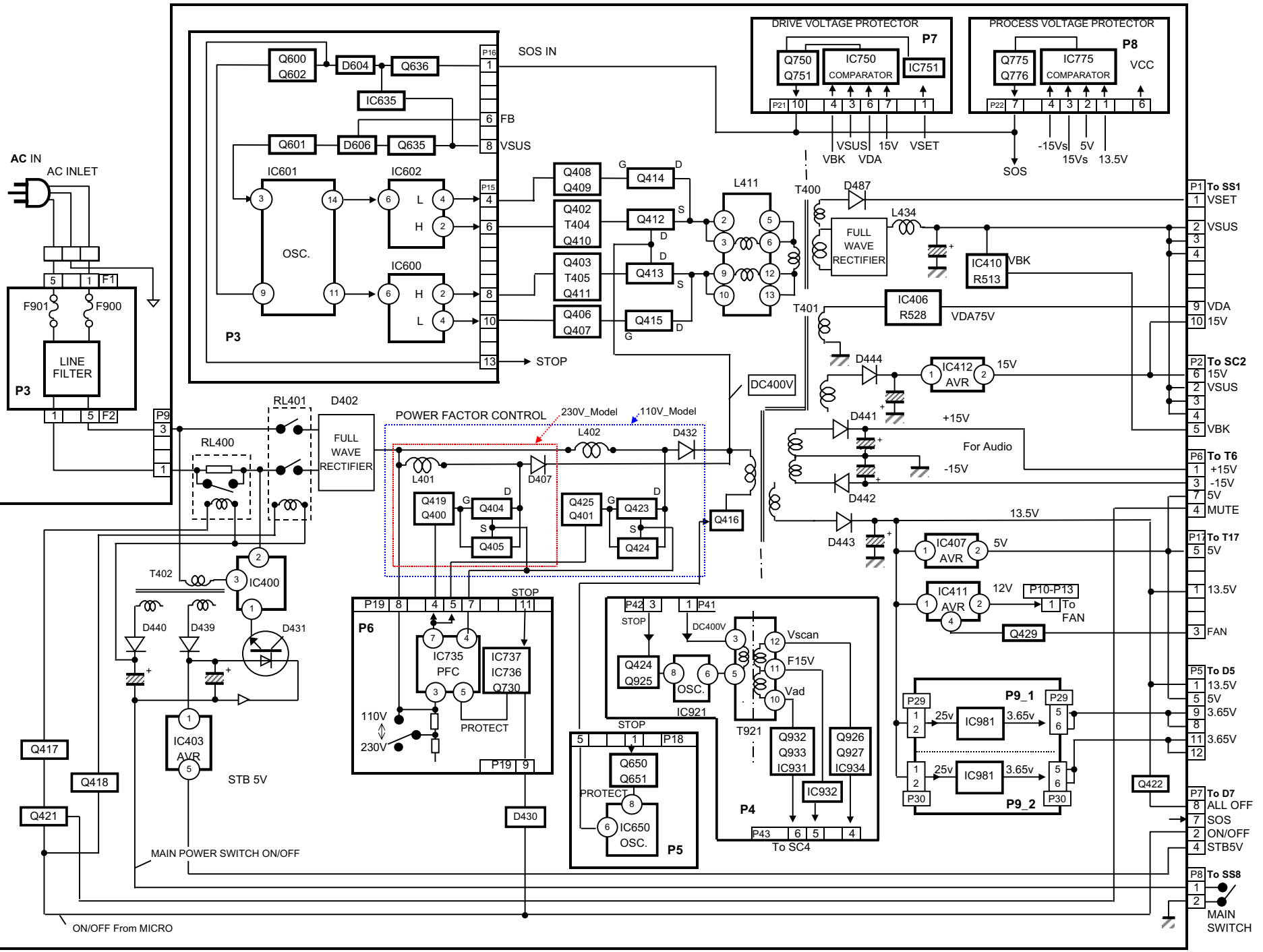

**P8-BOARD (FOIL SIDE)**
**TNPA1912**




**P3-BOARD (FOIL SIDE)**
**TNPA1907**




AC IN
AC INLET
F901
F900
F1
F2
LINE FILTER
P3
RL401
RL400
D402
FULL WAVE RECTIFIER
POWER FACTOR CONTROL
230V_Model
110V_Model
L401
L402
D407
D432
Q419
Q400
Q404
Q405
Q425
Q401
Q423
Q424
Q416
DC400V
T402
IC400
D440
D439
D431
IC403 AVR
STB 5V
Q417
Q418
Q421
MAIN POWER SWITCH ON/OFF
ON/OFF From MICRO
P6
IC735 PFC
IC737
IC736
Q730
PROTECT
110V
230V
STOP
D430
P5
Q650
Q651
IC650 OSC.
P4
IC921
T921
Vscan
F15V
Vad
Q932
Q933
IC931
Q926
Q927
IC934
IC932
To SC4
P42
P41
DC400V
Q424
Q925
OSC.
P9_1
P9_2
IC981
25v
3.65v
Q422
Q429
IC407 AVR
IC411 AVR
12V
P10-P13
To FAN
D443
D442
D441
D444
IC412 AVR
15V
+15V
For Audio
-15V
13.5V
5V
VDA75V
IC406
R528
IC410
R513
VBK
T401
T400
D487
L434
FULL WAVE RECTIFIER
L411
Q414
Q412
Q413
Q415
Q408
Q409
Q402
T404
Q410
Q403
T405
Q411
Q406
Q407
IC601
IC602
IC600
OSC.
P3
SOS IN
FB
VSUS
STOP
Q600
Q602
D604
Q636
IC635
Q601
D606
Q635
DRIVE VOLTAGE PROTECTER
P7
Q750
Q751
IC750
COMPARATOR
IC751
PROCESS VOLTAGE PROTECTER
P8
Q775
Q776
IC775
COMPARATOR
VCC
VBK
VDA
VSET
SOS
-15Vs
15Vs
13.5V
P1 To SS1
VSET
VSUS
VDA
15V
P2 To SC2
15V
VSUS
VBK
P6 To T6
+15V
-15V
5V
MUTE
P17 To T17
5V
13.5V
FAN
P5 To D5
13.5V
5V
3.65V
3.65V
P7 To D7
ALL OFF
SOS
ON/OFF
STB5V
P8 To SS8
MAIN SWITCH

# D-BOARD
# TZTNP01KESE (1/36)

TO P1-BOARD (P5)

TO 2/36

TO 13/36

IC9000 C0ABGB000001 AD8055ART

IC9001 C0ABGB000001 AD8055ART

IC9004 M52055FP

IC9005 M52055FP

IC9019 LM2202M C0ABZA000031

IC9020 LM2202M C0ABZA000031

IC9021 LM2202M C0ABZA000031

D-BOARD
TZTNP01KESE (2/36)

TO 1/36

TO 3/36

TO 14/36

IC9018
C0DBEZG00004

IC9908
C0DBEZG00004

IC9007
C0FBAD000053
AD9283BRSR80
B IN

IC9008
C0FBAD000053
AD9283BRSR80
G IN

IC9009
C0FBAD000053
AD9283BRSR80
R IN

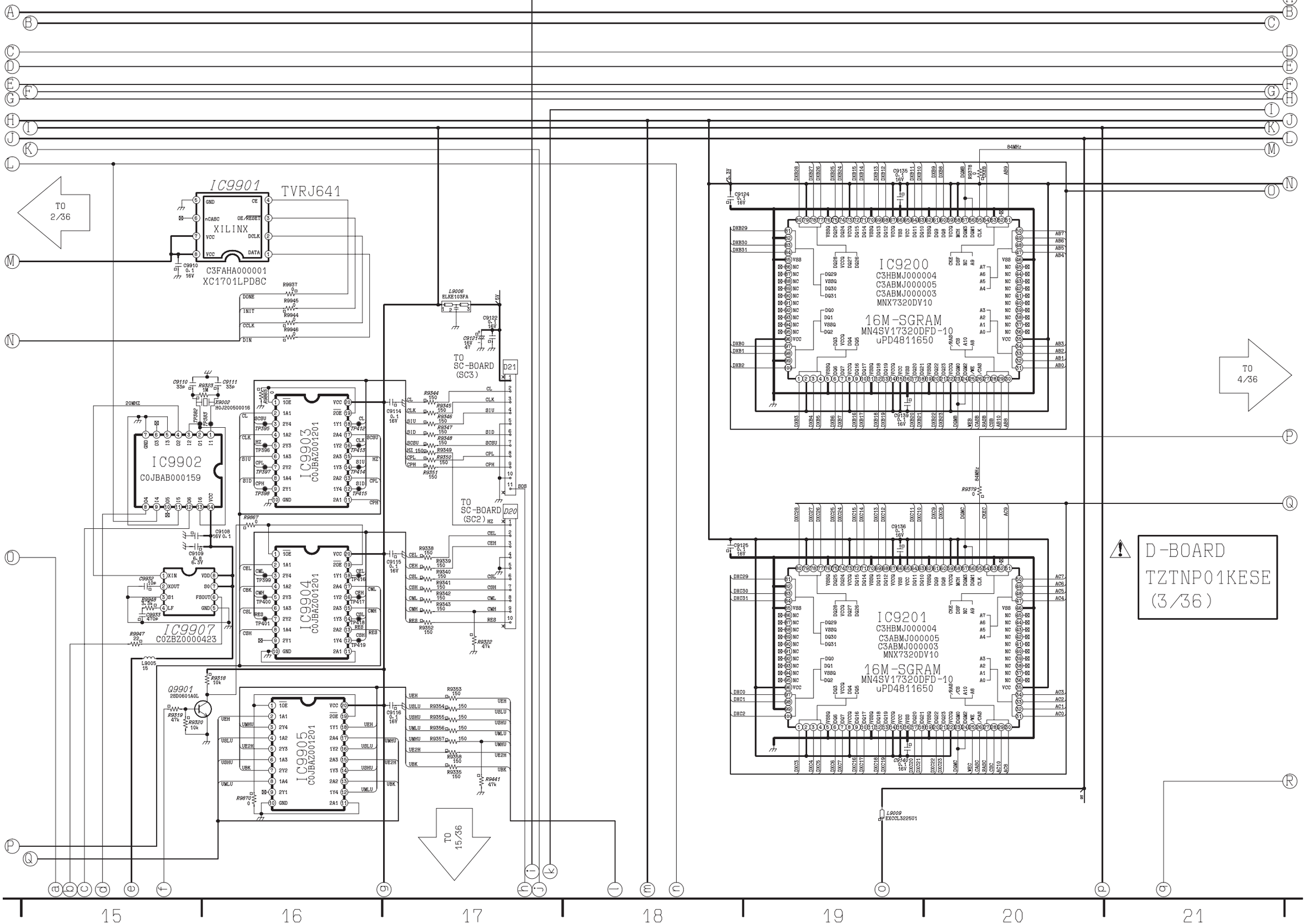
IC9900
C1ZBZ0001837
XC2S100-5PQ208C
(SPARTAN2)
DISCHARGE CONTROL

IC9909
PST9128NR

Q9902
2SD0601A0L

Q9903
2SD0601A0L

8 9 10 11 12 13 14


IC9901
TVRJ641
GND
CE
nCASC
OE/RESET
XILINX
VCC
DCLK
VCC
DATA
C3FAHA000001
XC1701LPD8C
DONE
INIT
CCLK
DIN
TO 2/36
L9006
ELKE103FA
TO SC-BOARD (SC3)
D21
TO SC-BOARD (SC2)
D20
20MHZ
IC9902
C0JBAB000159
IC9903
C0JBAZ001201
IC9904
C0JBAZ001201
IC9905
C0JBAZ001201
IC9907
C0ZBZ0000423
Q9901
2SD0601A0L
L9005
IC9200
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
IC9201
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
84MHz
L9009
EXCCL3225U1
TO 4/36
TO 15/36
D-BOARD
TZTNP01KESE
(3/36)
15
16
17
18
19
20
21

MN84503

# IC9204

VDD10 (3.3V)

VDD (2.5V)

SLV [88]

# RIGHT

FORMAT CONVERTER

TO 3/36

TO 16/36

TO 5/36

## IC9209

C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10

16M-SGRAM
MN4SV17320DFD-10
uPD4811650

## IC9093

C0UBAZ000855

## IC9215

C0ABFA000012

PLLM

## IC9217

AN78L05M-E1

## IC9211

C0ABFA000011

PLL2

## IC9213

AN78L05M-E1

## IC9207

C0UBAZ001201

3.3V->5V

D-BOARD
TZTNP01KESE (4/36)

22 23 24 25 26 27 28

# DIGITAL RGB PROCESSOR

*IC9302*
MN82860

SLV [DC]

RIGHT

IC9047
C0JBAZ000855

IC9225
TVRJ488
SUB-FIELD PROCESSOR
TVRJ488
XC9572XL-10TQ100C

D-BOARD
TZTNP01KESE (5/36)

TO 4/36
TO 6/36
TO 17/36

D-BOARD
TZTNP01KESE (6/36)

MBM29LV800B-10PFTN IC9401
8M-FLASH TVRJ481-2
C3FBKD000104

LSI27
IC9400
MN84502
NEW PLASMA AI
SLV [44]
RIGHT

64M-SDRAM C3ABPJ000008 IC9402

64M-SDRAM C3ABPJ000008 IC9403

TO 5/36

TO 7/36

TO 18/36

3.3V

C9299 0.1 16V
C9301 6.8
C9289 0.1 16V
C9291 6.8 6.3V
C9558 15p
C9305 0.1 16V
C9307 0.1 16V
C9293 0.1 16V
C9294 0.1 16V
C9303 0.1 16V
C9309 0.1 16V
C9311 0.1 16V
C9312 0.1 16V
C9315 0.1 16V
C9316 0.1 16V
C9317 0.1 16V
C9318 0.1 16V
C9323 0.1 16V
C9324 0.1 16V
C9325 0.1 16V
C9326 0.1 16V
C9123 10p
C9297 100p

R9557 22
R9559 22
R9556 22
R9560 100
R9561 10k
R9562 1k
R9579 0
R9584 10k
R9571 10k
R9577 10k
R9576 10k
R9567 4.7k
R9569 10k
R9613 0
R9614 0
R9885 0
R9886 0
R9587 10k
R9589 10k
R9591 10k
R9595 10k
R9597 10k
R9588 10k
R9590 10k
R9592 10k
R9596 10k
R9598 10k

TP2899
TP2894

FPDAT0 FPDAT1 FPCLK OSDCK OSDD0 OSDD1 OSDD2 OSDD3
SDA SCL
PORT0 PORT1 PORT2 PORT3 PORT4 PORT5 PORT6 PORT7
ROMCE ROMOE ROMWE
ROMD0 ROMD1 ROMD2 ROMD3 ROMD4 ROMD5 ROMD6 ROMD7
ROMD8 ROMD9 ROMD10 ROMD11 ROMD12 ROMD13 ROMD14 ROMD15
ROMA0 ROMA1 ROMA2 ROMA3 ROMA4 ROMA5 ROMA6 ROMA7 ROMA8 ROMA9 ROMA10 ROMA11 ROMA12 ROMA13 ROMA14 ROMA15 ROMA16 ROMA17 ROMA18
T1PP T1LD/LLDEN T1IC ID0 ID1
R08 R09 R010
R011

SDADQ0 SDADQ1 SDADQ2 SDADQ3 SDADQ4 SDADQ5 SDADQ6 SDADQ7 SDADQ8 SDADQ9 SDADQ10 SDADQ11 SDADQ12 SDADQ13 SDADQ14 SDADQ15 SDADQ16 SDADQ17 SDADQ18 SDADQ19 SDADQ20 SDADQ21 SDADQ22 SDADQ23 SDADQ24 SDADQ25 SDADQ26
SDAA0 SDAA1 SDAA2 SDAA3 SDAA4 SDAA5 SDAA6 SDAA7 SDAA8 SDAA9 SDAA10 SDAA11 SDAA12
SDAWE SDACAS SDARAS SDACS SDACKE SDADQM SDACLK SDABA
SDBDQ0 SDBDQ1 SDBDQ2 SDBDQ3 SDBDQ4 SDBDQ5 SDBDQ6 SDBDQ7 SDBDQ8 SDBDQ9 SDBDQ10 SDBDQ11 SDBDQ12 SDBDQ13 SDBDQ14 SDBDQ15 SDBDQ16 SDBDQ17 SDBDQ18 SDBDQ19 SDBDQ20 SDBDQ21 SDBDQ22 SDBDQ23 SDBDQ24 SDBDQ25 SDBDQ26
SDBA0 SDBA1 SDBA2 SDBA3 SDBA4 SDBA5 SDBA6 SDBA7 SDBA8 SDBA9 SDBA10 SDBA11 SDBA12
SDBWE SDBCAS SDBRAS SDBCS SDBCKE SDBDQM SDBCLK SDBBA

HOUT VOUT HD VD NRST CLKI HDI VDI NSR INT SCMOD MINTEST TST SRL

TP978 TP979 TP980 TP981 TP982 TP983 TP984 TP985 TP986 TP987 TP988 TP989 TP990 TP991 TP992 TP993 TP994 TP995 TP996 TP997 TP998 TP999 TP1000 TP1001

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144

RST 3.3V

⚠ D-BOARD
TZTNP01KESE (7/36)

TO 8/36

TO 6/36

TO 19/36

UF
ODD-LINE MEMORY
16M-SGRAM
IC9061
C3ABMJ000005
C3ABMJ000003
MNX7320DV10

R9635 10k
R9643 10k
R9634 100
R9636 10k
R9644 10k
C9347 0.1 16V
C9351 0.1 16V
C9352 6.8 6.3V
C9353 0.1 16V
3.3V
SDCLKF1 84MHz

43 44 45 46 47 48 49

D-BOARD
TZTNP01KESE (8/36)

TO
7/36

TO
C1-BOARD
(C11)

D31

LC9026
ELKE103FA

C9359 0.1 16V
C9360 0.1 16V
C9361 4.7 16V

R9532 0

IC9554
C0JBAZ001201
BUFFER

TP1583 TP1584 TP1585 TP1586 TP1612 TP1613 TP1614 TP1615

R9652 150

R9678 EXB38V680JV
R9679 EXB38V680JV
R9682 EXB38V680JV
R9683 EXB38V680JV
R9686 EXB38V680JV
R9687 EXB38V680JV

R9694 47
R9695 47
R9696 150
R9697 150
R9698 47
R9701 47

TO
20/36

TO
9/36

50 51 52 53 54 55 56

IIC 5V

SDA2

SCL2

R9516 0

R9520 0

D32

TO C2-BOARD (C21)

LC9028 ELKE103FA

C9391 0.1 16V

C9392 4.7 16V

TO 10/36

LC9027 ELKE103FA

R9723 47

R9726 47

R9728 150

R9730 150

R9732 47

R9733 150

R9705 EXB38V680JV

R9707 EXB38V680JV

R9709 EXB38V680JV

R9711 EXB38V680JV

R9713 EXB38V680JV

R9715 EXB38V680JV

R9717 EXB38V680JV

R9719 EXB38V680JV

R9721 EXB38V680JV

TO 8/36

TO 21/36

D-BOARD
TZTNP01KESE (9/36)

57 58 59 60 61 62 63

# D-BOARD
# TZTNP01KESE (10/36)

TO 9/36

TO 11/36

TO 22/36

RST 3.3V

CLK2 NCLK2 PCL2 CEL2

R9861 47 R9862 47 R9863 150 R9864 47

CLK1R CLK2R PCL LEL

IC9520 C0JBAZ001201 BUFFER

1OE 1A1 2Y4 1A2 2Y3 1A3 2Y2 1A4 2Y1 GND VCC 2OE 1Y1 2A4 1Y2 2A3 1Y3 2A2 1Y4 2A1

C9522 0.1 16V

R8955 10k CLK1R CLK1U2

R8956 10k CLK2R CLK2U2

R8957 10k LEL

PCU LEU PCL

R8961 10k

R9762 10k R9764 10k R9768 10k

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 CSUF RAS CAS WE DQMU DQML CLK CKE CS BA0 BA1 DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15 DQ16 DQ17 DQ18 DQ19 DQ20 DQ21 DQ22 DQ23 DQ24 DQ25 DQ26 DQ27 DQ28 DQ29 DQ30 DQ31

UF 16M-SGRAM IC9503 C3ABMJ000005 C3ABMJ000003 MNX7320DV10 ODD-LINE MEMORY

C9414 0.1 16V C9416 0.1 16V

R9761 100 R9763 10k R9765 10k R9766 10k R9767 10k

UF1

3.3V C9419 6.8 6.3V C9420 0.1 16V

C9426 0.1 16V

IC9504 C0JBAZ001201 BUFFER

DMLL DMHL DSLL DSHL

TP2296 TP2297 TP2298 TP2299

a b c d e f g h i j k l m n

64 65 66 67 68 69 70

⚠ D-BOARD
TZTNP01KESE (11/36)

TO 10/36

TO C3-BOARD (C31)

D33

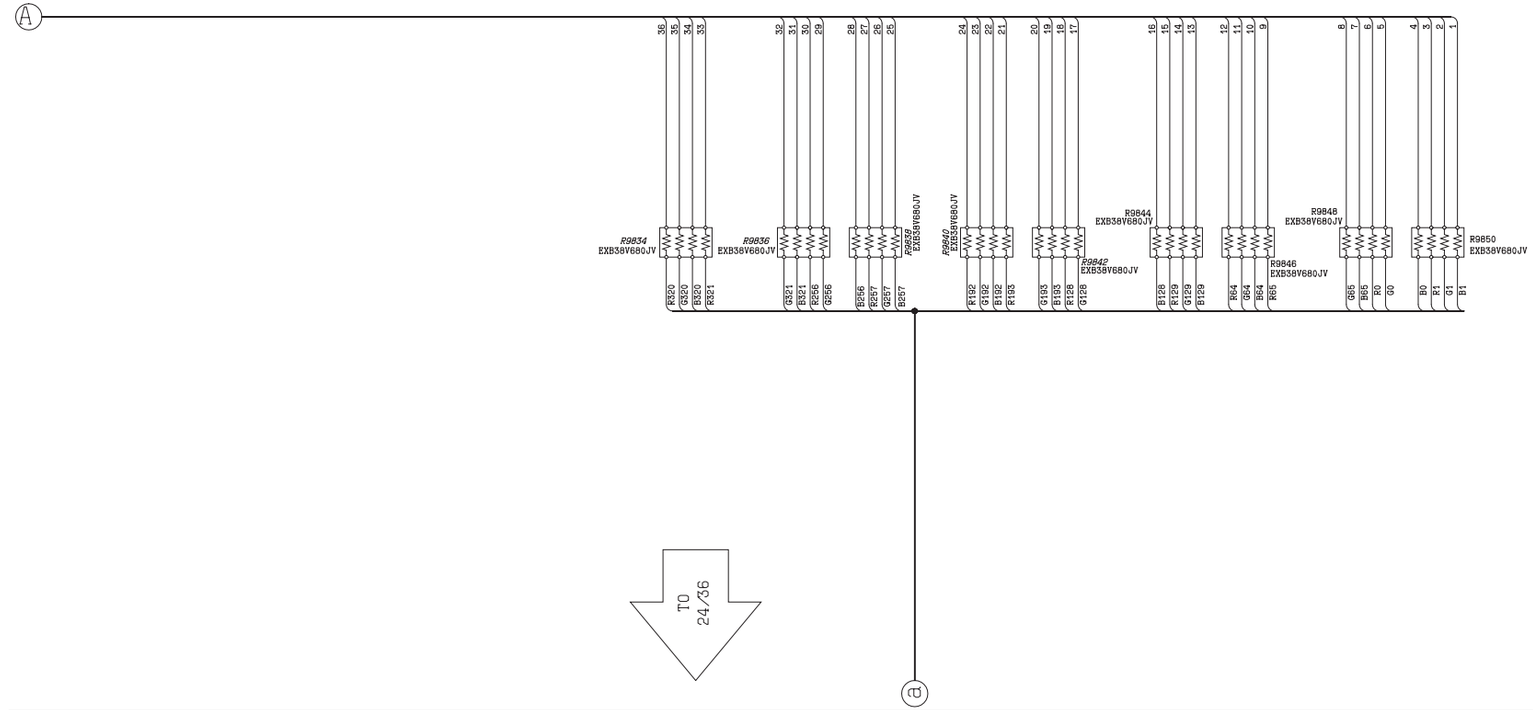
TO 12/36

TO 23/36

71 72 73 74 75 76 77

D-BOARD
TZTNP01KESE (12/36)

TO
11/36



# D-BOARD
# TZTNP01KESE (13/36)

TO 1/36

TO 14/36

TO 25/36

R9001 0

R9003 0

R9006 0

D3
R_IN
GND
G_IN
GND
B_IN
GND

IC9002
C0ABGB000001
AD8055ART

Q9009 2SD0601A0L
Q9010 2SD0601A0L
Q9011 2SD0601A0L

LC9018 J0E8004B0006 8MHz
LC9019 J0E2005B0004 20MHz
LC9020 J0E3505B0001 35MHz

IC9006
M52055FP

IC9012
C1ABD0000441
SLV [48]

LG908 EXCCL3225U1

TP10 TP15 TP23 TP61 TP64 TP79 TP85

SWA SWB SCL2 SDA2 B.BRT G.BRT R.BRT CONTRAST

1 2 3 4 5 6 7

A B C D E F G H I J K

TO 2/36

TO 13/36

TO 26/36

TO 15/36

D-BOARD
TZTNP01KESE (14/36)

CLP

R9293 1k

8 9 10 11 12 13 14

IC9906
C0JBAZ001201

IC9202
C1ABO0000441
SLV [4E]

IC9223
C0JBAB000155
TC74HC14AFEL

L9010
EXCCL322601

C9117 0.1 16V
C9134 0.1
C9462 0.1 16V

R9359 150
R9360 150
R9361 150
R9362 150
R9363 150
R9364 150
R9365 150

R9366 10k
R9367 10k
R9368 4.7k
R9369 4.7k
R9370 4.7k
R9371 4.7k
R9372 10k
R9373 10k
R9374 56
R9375 56

BLKU
LEU
PCU
HZ
BLKD
LED
PCD
SWB
SWA
SCL2
SDA2
NHD
NVD
NHB
NVS
NCLP
5V

TO 3/36
TO 16/36
TO 14/36
TO 27/36

D-BOARD
TZTNP01KESE (15/36)

15 16 17 18 19 20 21

TO 4/36

TO 15/36

TO 17/36

TO 28/36

IIC 3.3V

3.3V->2.5V

3.3V->2.5V

Q9015
2SD0601A0L

IC9014
C0DBEZG00004

IC9206
C0JBAZ000855

IC9036
C0JBAZ000855

IC9212
C0ABFA000012
PLL1

IC9214
AN78L05M-E1

IC9210
C0JBAR000327
TC4053BFT

Q9050
2SK620TX

Q9051
2SK620TX

IC9024
C0DBEZG00004

50MHz

⚠ D-BOARD
TZTNP01KESE (16/36)

22 23 24 25 26 27 28

D-BOARD
TZTNP01KESE (17/36)

TO 5/36

TO 16/36

TO 18/36

TO 29/36

R9436 10

R9504 10

R9514 0

R9531 10

R9530 10

TP2888

TP2889

TP2890

TP2891

IC9048
C0JBAZ000855

C9288 0.1 16V



29 30 31 32 33 34 35

TO 6/36

D-BOARD
TZTNP01KESE (18/36)

TO 19/36

TO 17/36

TO 30/36

C9300 0.1 16V

C9302 6.8

MBM29LV800B-10PFTN IC9451
8M-FLASH TVRJ495-2
C3FBKD000104

36 37 38 39 40 41 42

D-BOARD
TZTNP01KESE (19/36)

TO 7/36

TO 18/36

TO 31/36

TO 20/36

LSI28

IC9551

MN7E007P5B

SUB-FIELD PROCESSOR

SLV [BA]

LEFT

IC9057
C0ZBZ0000268

X9004
H1AB405B0001
84MHz

UF1

UF2

43 44 45 46 47 48 49

D-BOARD

TZTNP01KESE (20/36)

IC9552
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
EVEN-LINE MEMORY
16M-SGRAM
UB

IC9557
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
EVEN-LINE MEMORY
16M-SGRAM
DB

S/P CONVERTER
UPPER LEFT
LSI29-U2
IC9558
MN7D029P5A
LEFT

S/P CONVERTER
DOWN MIDDLE
LSI29-D2
IC9559
MN7D029P5A
LEFT

IC9560
C0JBAZ001201
BUFFER

IC9561
C0JBAZ001201
BUFFER

TO 8/36

TO 21/36

TO 19/36

TO 32/36

50 51 52 53 54 55 56

S/P CONVERTER
UPPER LEFT
UPPER MIDDLE

LSI29-U1

IC9562

MN7D029P5A

LEFT

S/P CONVERTER
DOWN LEFT
DOWN MIDDLE

MN7D029P5A

IC9563

LSI29-D1

LEFT

BUFFER

IC9564
C0JBAZ001201

BUFFER

IC9565
C0JBAZ001201

IC9516
C0ZBZ0000268

D-BOARD
TZTNP01KESE
(21/36)

TO 9/36

TO 20/36

TO 22/36

TO 33/36

57 58 59 60 61 62 63

LSI28

*IC9501*

MN7E007P5B

SUB-FIELD PROCESSOR

SLV[B0]

RIGHT

D-BOARD
TZTNP01KESE
(22/36)

TO 21/36
TO 10/36
TO 23/36
TO 34/36

IC9502
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
EVEN-LINE MEMORY
16M-SGRAM
UB

IC9507
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
EVEN-LINE MEMORY
16M-SGRAM
DB

LSI29-U2
IC9508
MN7D029P5A
RIGHT
S/P CONVERTER
UPPER MIDDLE
UPPER RIGHT

LSI29-D2
IC9509
MN7D029P5A
RIGHT
S/P CONVERTER
DOWN MIDDLE
DOWN RIGHT

IC9510
C0JBAZ001201
BUFFER

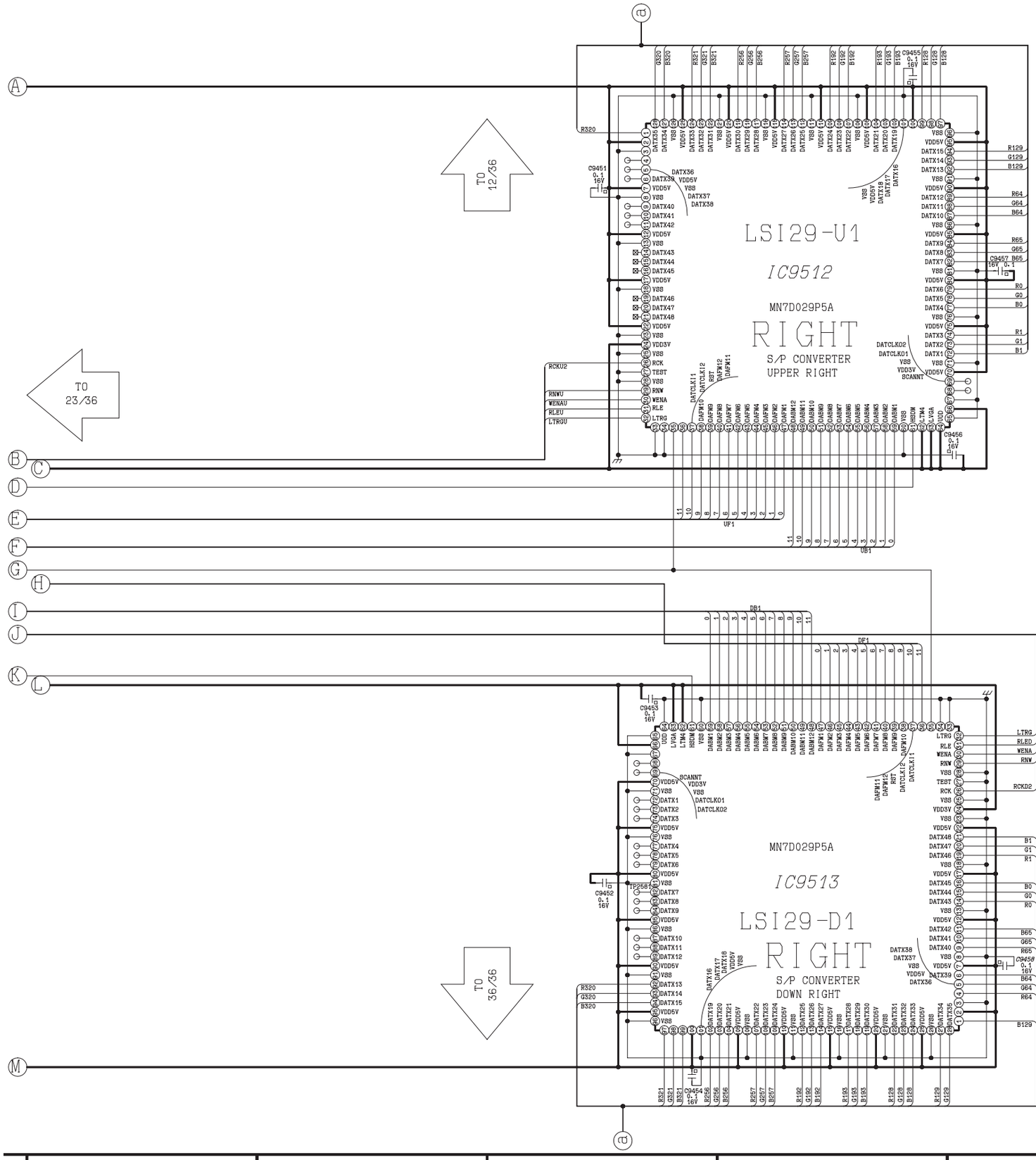
IC9511
C0JBAZ001201
BUFFER

D-BOARD
TZTNP01KESE
(23/36)

TO 22/36
TO 11/36
TO 24/36
TO 35/36

71 72 73 74 75 76 77

⚠ D-BOARD
TZTNP01KESE (24/36)




78 79 80 81 82 83 84

# D-BOARD
# TZTNP01KESE (25/36)

TO 13/36

J1GU D2
NHD
NVD
NCLP
NHS
NVS

TO J-BOARD (J4)
D8
to J4
T0-
T0+
T1-
T1+
T2-
T2+
TCLK-
TCLK+
T3-
T3+

LVDS0
LVDS0
LVDS1
LVDS1
LVDS2
LVDS2
LVDSCLK
LVDSCLK
LVDS3
LVDS3

IC9801
C0ZBZ0000551 DS90CF386MTDX
C0ZBZ0000533 SN75LVDS82DGG

R8905 0 HS
R8906 0 VS
R8900 100 Y0-
R8901 100 Y1-
R8902 100 Y2-
R8903 100 Y3-
R8904 100 CLKIN-
R8907 0
R8908 10k
R8909 10k
Q8900 2SD0601A0L

C8902 16V 0.1
C8900 16V 0.1
C8908 0.1 16V
C8912 0.1 16V
C8910 16V 0.1

LC9801 ELKE103FA
LC9802 ELKE103FA
LC9803 ELKE103FA
C8904 220 4V
C8906 0.1 16V
C8905 220 4V
C8907 0.1 16V
C8914 220 4V
C8915 0.1 16V
TPD30

R8910 1k
R8913 680
R8915 1k
R8917 1k
R8919 1k
R8911 1.5k
R8914 1.5k
R8916 1.5k
R8918 1.5k
R8920 1.5k
TP8925

NVD
NHD
D_RST
NHS
NVD
SCL1
SDA2
SCL3
MUTE
POW_STATUS
ALL_OFF1
R_LED
G_LED
RESET
REMOCON
I!C_CONT
SDA1
SCL2
SDA3
PIC_IRQ
CABLE_DET

R8921 1k
TPD14
R8924 100
R8894 0

TO J-BOARD (J9)
D9
J9

IC9802 C0JBAF000405 TC74LCX574FTEL
IC9803 C0JBAF000405 TC74LCX574FTEL
IC9804 C0JBAF000405 TC74LCX574FTEL
C8917 0.1
C8918 0.1
C8919 0.1
R8912 4.7k

D9706 MA5X152K0L

R8923 100
R9114 0
R9117 0
R9116 0
R9119 1k
REMOCON

TO 26/36

TO P1-BOARD (P7)

D7

RESET
TV_ON/OFF
GND
STB5V
RUSH_TV
FAN_SOS
PS_SOS
ALL_OFF1
GND

R9126 0
R9127 0
R9128 0
R9129 0
R9130 0
R9131 0

LC9023 ELKE103FA

R9140 100k
D9010 MA3X162KOL
C9055 0.1 16V
C9057 47 16V
C9058 1000p
C9056 47 16V
C9053 1 16V
R9120 0

FAN_SOS
PS_SOS

C9701 0.1 16V
R9900 1k
C9713 0.056 16V
NC VCC OUT Cd
NC IN NC GND
R9893 4.7k
Q9701 2SD0601A0L
R9892 4.7k
R9899 24k
R9901 10k

IC9708
C0EBB0000024

LC9024 ELKE103FA

D4
STB5V
IIC_CONT
GND
SCL1
SDA1
SCL2
SDA2
PIC_IRQ

C9050 100p
R9138 5.6k
D9007 MAZ30620ML
R9132 100
R9133 100
R9134 68
R9135 100
R9136 100
D9005 MAZ30620ML
D9008 MAZ30620ML
D9006 MAZ30620ML
D9009 MAZ30620ML
SCL1
SDA1
SCL2
SDA2

R9124 100
R9125 100
D9003 MAZ30620ML
D9004 MAZ30620ML
SCL3
SDA3

TO 14/36

TO 25/36

TO 27/36

X9001 HOJ2456000024 HOJ2456000013
C9092 10p
C9091 10p
7P252
24.576MHz
C9078 0.1 16V
C9081 6.8
R9181 0

IC9701
MN102L230

TP135 TP136 TP137 TP138
TP245 TP249 TP252 TP254

R9145 5.6k
R9153 1k
R9156 5.6k
R9157 100
R9158 100
R9159 1k
R9160 1k
R9161 1k
R9173 56
R9175 56
R9162 100
R9163 1k
R9536 100
R9177 5.6k
R9174 10k
R9171 2.7k
R9172 2.7k
R9176 10k
R9178 10k
R9165 10k
R9166 10k
R9167 10k
R9168 10k
R9169 10k
R9170 10k
R9148 2.7k
R9165 2.7k
R9149 2.7k
R9166 2.7k
C9060 0.1 16V
C9064 100p
C9065 100p
C9066 100p
C9068 100p
C9070 100p
C9073 100p
C9054 1000p
C9079 0.01
C9082 0.01
C9085 16V 0.1
C9086 0.1
C9087 0.1
C9090 0.01
C9099 0.01
C9095 0.1 16V
C9094 0.1 16V
R9268 1k
R9260 5.6k
R9254 56
R9257 56
R9243 100
R9246 100
R9240 100
R9241 100
R9235 100
R9238 100
R9232 1k
R9255 1k
R9220 1k
R9221 1k
R9222 1k
R9219 1k
R9205 10k
R9218 10k
R9229 1k
R9230 1k
R9300 470k
R9280 5.6k
R9286 100
R9141 4.7k
R9142 4.7k
R9143 4.7k
R9148 R9165 2.7k 2.7k
R9149 R9166 2.7k 2.7k
R9162 R9163 10k 10k
R9122 100
R9123 100
R9139 100
R9137 5.6k
C9051 0.1 16V
C9052 0.1 16V
R8979 1k
D9011 MA3X152KOL
D9014 MAZ30620ML
C9084 1 16V
C9097 0.01
C9098 0.01
Q9013 2SD0601A0L
Q9014 2SD0601A0L
STB 5V
+5V (NORMAL)
DSV

SW OUT VSS VDD
IC9703 MN1382RTX

IC9702 VRAM
C3HAHC000006

SC SI/O0 SI/O1 SI/O2 SI/O3 OT/OE I/O0 I/O1 I/O2 I/O3 VCC WE NC RAS NC A8 A6 A5 A4 VCC
VSS SI/O7 SI/O6 SI/O5 SI/O4 SE D15 D14 D13 D12 VSS DSF NC CAS QSF A0 A1 A2 A3 A7
SD08 SD09 SD10 SD11 D08 D09 D10 D11
SD15 SD14 SD13 SD12 D15 D14 D13 D12
VA8 VA6 VA5 VA4
TP345 TP346 TP347 TP348
TP371 TP372 TP373 TP374 TP375
VA0 VA1 VA2 VA3 VA7

C9100 6.8
C9101 0.1 16V

1Mbit (128KW*8bit)

Q9016 2SD0601A0L
Q9022 2SK620TX
R9312 3.3k
R9322 100
R9306 1k
C9102 0.1 16V
C9104 0.1 16V
R9278 1.5k
R9279 470

IC9706
C3EBGC000018
A0 A1 A2 VSS VCC WP SCL SDA
C9103 0.1 16V
C9107 6.8
SCL1
SDA1

D-BOARD
TZTNP01KESE
(26/36)

LED_G
LED_R
KEY
REMOCON

8 9 10 11 12 13 14

TVRJ640

IC9705
C3FBLD000039
8M ROM
FLASH MEMORY
TP381
TP402
TP403
R9321 5.6k
R9327 5.6k
R9332 0
C9112 0.1 16V
8T86V

IC9707
C0JBAF000405
C9718 0.1

IC9704
C0JBAZ001201
3.3V->5V
C9736 0.1
R9881 10k
R9882 10k
MCHD
MCVD
MCDATAO
CLP1
MCNHP
MCNVP
MCDATA

TO 15/36

TO 26/36

IC9250
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
C9126 0.1 16V
C9137 0.1 16V
C9141 0.1 16V
R9330 0
84MHz

IC9251
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
C9127 0.1 16V
C9138 0.1 16V
C9142 0.1 16V
R9331 0
84MHz

C9128 0.1 16V
R9370 2.7k
R9371 2.7k
C9133 0.1 16V
R9376 2.7k
R9377 2.7k
Q9018 2SK620TX
Q9017 2SK620TX
5V<->3.3V
Q9020 2SK620TX
Q9019 2SK620TX
5V<->3.3V
SCL2
SDA2
SCL4
SDA4

D-BOARD
TZTNP01KESE (27/36)

TO 28/36

15 16 17 18 19 20 21

FORMAT CONVERTER
MN84503

*IC9254*

VDDIO (3.3V)
VDD (2.5V)
SLV [8A]

LEFT

IC9259
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650

84MHz

50MHz
50MHz

D-BOARD
TZTNP01KESE (28/36)

TO 16/36
TO 27/36
TO 29/36

D-BOARD
TZTNP01KESE (29/36)

TO 17/36

TO 30/36

TO 28/36

# DIGITAL RGB PROCESSOR

*IC9352*
MN82860

SLV [D8]

LEFT

IC9226
TVRJ488
SUB-FIELD PROCESSOR
TVRJ488
XC9572XL-10TQ100C

29 30 31 32 33 34 35

# D-BOARD
# TZTNP01KESE (30/36)

## LSI27

NEW PLASMA AI

*IC9450*

MN84502

SLV [42]

LEFT

TO 29/36

TO 18/36

TO 31/36

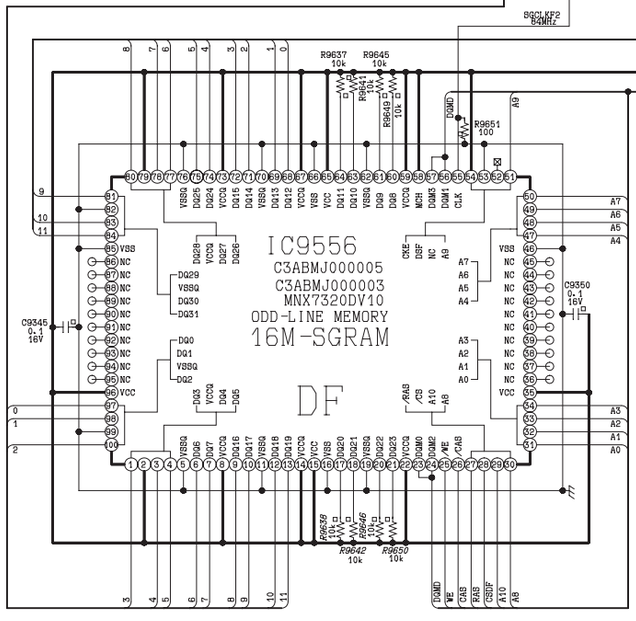
64M-SDRAM C3ABPJ000008 IC9452

64M-SDRAM C3ABPJ000008 IC9453

| 36 | 37 | 38 | 39 | 40 | 41 | 42 |
|---|---|---|---|---|---|---|

TO 19/36

⚠ D-BOARD
TZTNP01KESE (31/36)




TO 30/36

TO 32/36

43 44 45 46 47 48 49

D-BOARD
TZTNP01KESE (32/36)

TO 20/36

TO 33/36

TO 31/36

TO C6-BOARD (C61) D36

IC9555 C0JBAZ001201 BUFFER

C9358 0.1 16V

R9653 150

TP1579 TP1580 TP1581 TP1582 TP1608 TP1609 TP1610 TP1611

DRIVER RESET

R8978 1k

Q8901 2SD0601A0L

R8976 10k

R9676 EXB38V680JV

R9677 EXB38V680JV

R9680 EXB38V680JV

R9681 EXB38V680JV

R9684 EXB38V680JV

R9685 150

R9534 0

C9374 4.7 16V

C9375 0.1 16V

ELKE103FA LC9025

R9689 47

R9690 150

R9691 47

R9692 47

R9693 47

LSR PSR BLKR CLK2R CLK1R HZ

CEL PCL BLK NCLK CLK HZ

DMLR DMHR DSLR DSHR

5V

# D-BOARD
# TZTNP01KESE (33/36)

TO 21/36

TO 32/36

TO 34/36

TO C5-BOARD (C51)

R9704 EXB38V680JV
R9706 EXB38V680JV
R9708 EXB38V680JV
R9710 EXB38V680JV
R9712 EXB38V680JV
R9714 EXB38V680JV
R9716 EXB38V680JV
R9718 EXB38V680JV
R9720 EXB38V680JV

R9722 150
R9724 150
R9725 150
R9727 150
R9729 47
R9731 47

R9301 47
R9302 150
R9304 47
R9305 47

C9394 4.7 16V
C9395 0.1 16V
ELKE103FA LC90229

D35

| 57 | 58 | 59 | 60 | 61 | 62 | 63 |
|---|---|---|---|---|---|---|

# D-BOARD
# TZTNP01KESE (34/36)

TO 22/36

TO 33/36

TO 35/36

IC9506
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
ODD-LINE MEMORY
16M-SGRAM
DF

IC9521
C0JBAZ001201
BUFFER

IC9505
C0JBAZ001201
BUFFER

# D-BOARD
# TZTNP01KESE (35/36)

TO 23/36

TO 36/36

TO 34/36

TO C4-BOARD (C41) D34

R9780 150 DMLL DMHL DSLL DSHL

R9797 EXB38V680JV R9801 EXB38V680JV R9802 EXB38V680JV R9805 EXB38V680JV R9806 EXB38V680JV R9809 EXB38V680JV

R9812 EXB38V680JV R9814 EXB38V680JV EXB38V680JV R9816

R9817 47 R9818 150 R9820 150 R9821 47 R9823 47 R9825 47 CSL PCL BLK NCLK CLK HZ LER PCR BLKR CLK2R CLK1R HZ

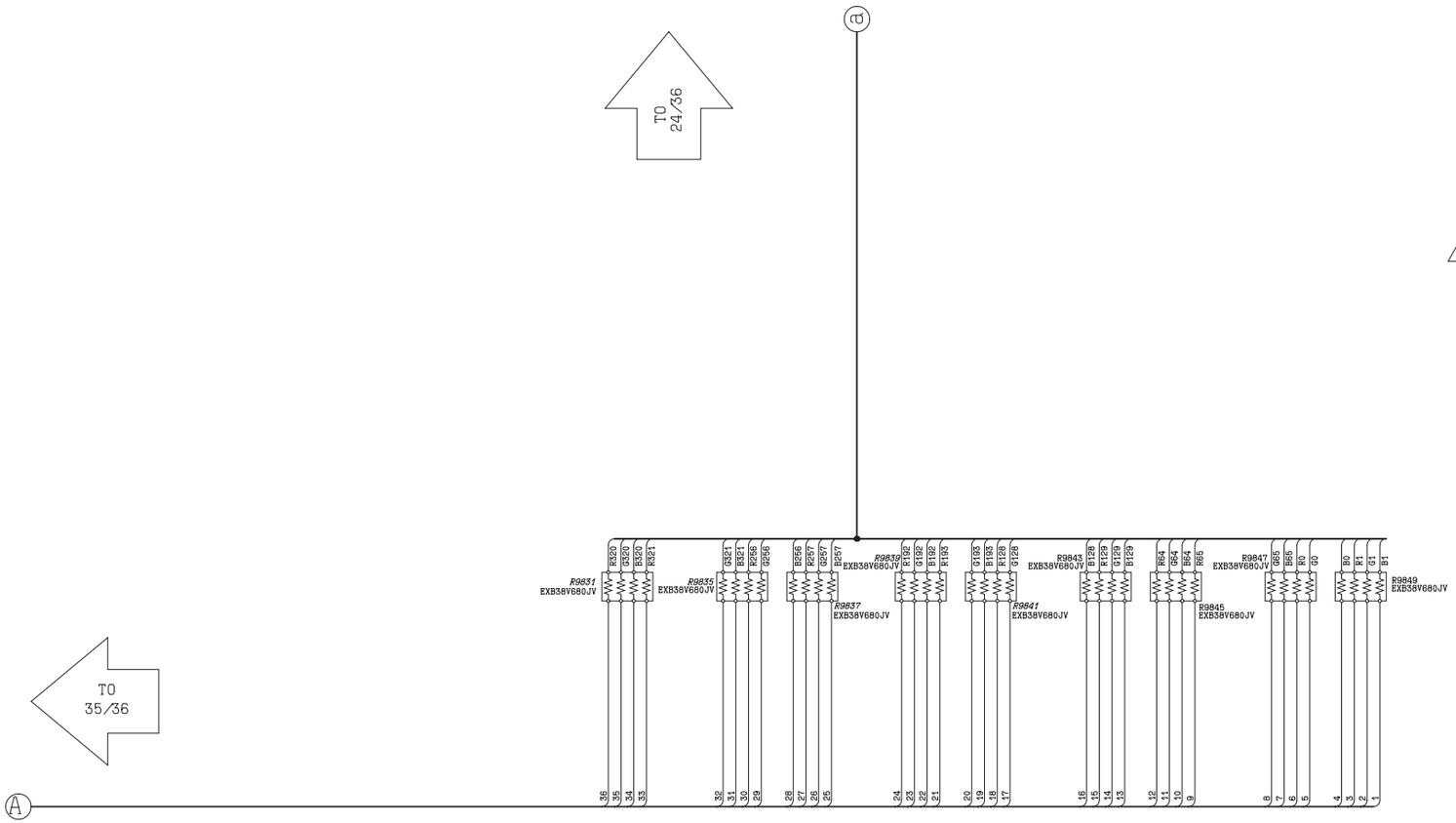
C9443 4.7 16V C9444 0.1 16V LC9032 ELKE103FA

LC9030 ELKE103FA R9535 0

GND D19-2 D19-4 D19-6 D19-7 D19-9 D19-8 GND D20-2 D20-4 D20-6 D20-7 D20-9 D20-8 GND D21-2 D21-4 D21-6 D21-7 D21-9 D21-8 GND D22-2 D22-4 D22-6 D22-7 D22-9 D22-8 GND PCL3 NCLK3 GND DSH3 DML3 GND KEY_SW REMOCON LED_R +5V

KEY REMOCON LED_G LED_R

71 72 73 74 75 76 77


TO
24/36
a
D-BOARD
TZTNP01KESE (36/36)
TO
35/36
A
R9831
EXB38V680JV
R9835
EXB38V680JV
R9837
EXB38V680JV
R9839
EXB38V680JV
R9841
EXB38V680JV
R9843
EXB38V680JV
R9845
EXB38V680JV
R9847
EXB38V680JV
R9849
EXB38V680JV
R320
R320
R320
R321
R321
R321
R256
R256
R256
R257
R257
R257
R192
R192
R192
R193
R193
R193
R128
R128
R128
R129
R129
R129
R64
R64
R64
R65
R65
R65
R0
R0
R0
R1
R1
R1
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
78
79
80
81
82
83
84

HX-BOARD TZTNP02KESE

HX1 TO J-BOARD (J3)

JK3513
K2HC103B0105

JK3511
TJS8A9880

JK3509
K1FB125B0050
TJS4A8390
REMOTE_IN
RS-232C

IC3502
C3EBCC000020
DDC EEPROM

IC3515
C0ZBZ0000205
RS232C DRIVER

Q3531 2SD0601A0L
Q3532 2SD0601A0L
Q3507 2SD0601A0L
Q3508 2SD0601A0L
Q3509 2SD0601A0L
Q3513 2SD0601A0L
Q3514 2SB0709A0L
Q3515 2SD0601A0L
Q3516 2SB0709A0L

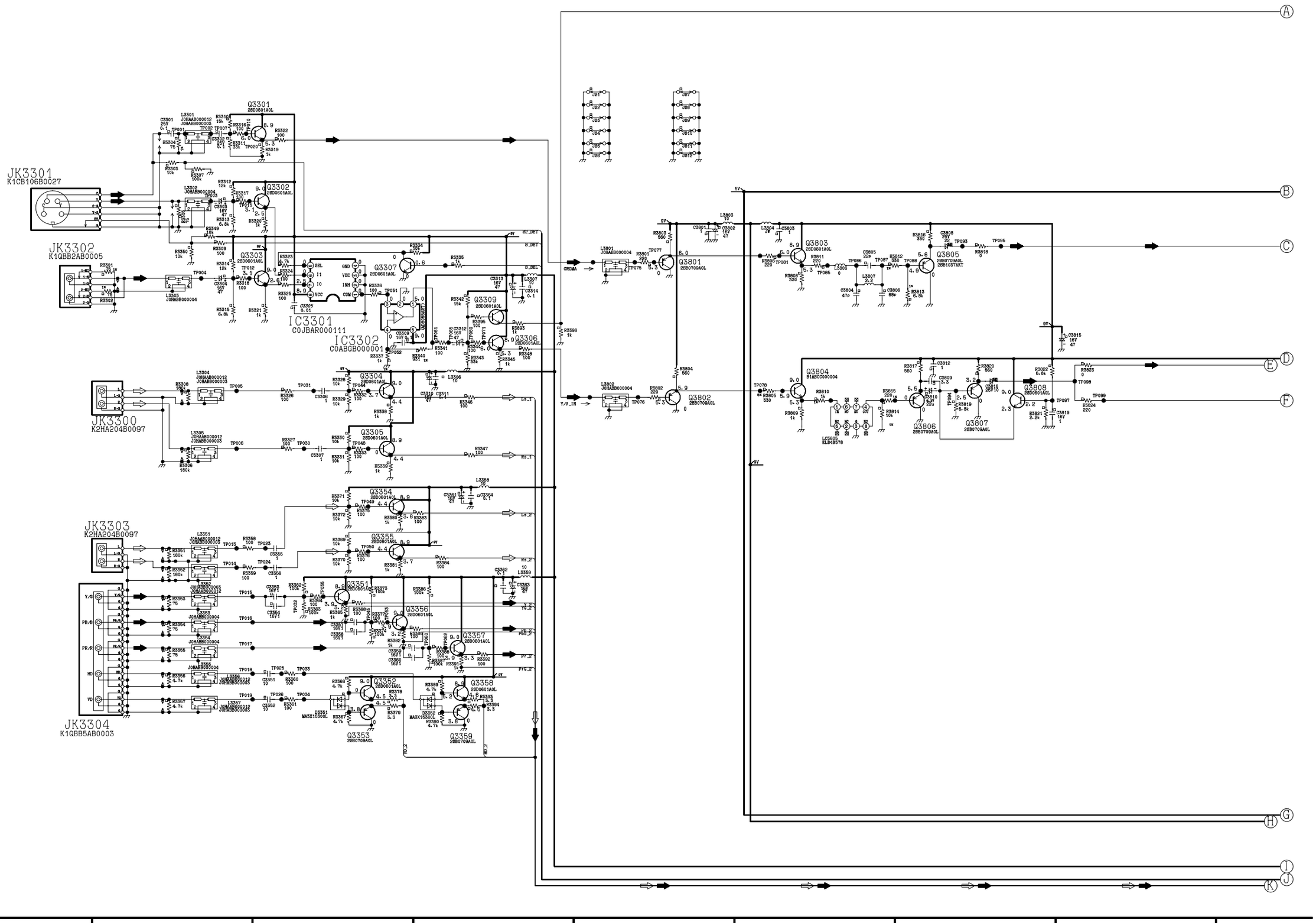
L3512 J0HABB000003 J0HAAB000012
L3513 J0HABB000003 J0HAAB000012
L3507 J0HABB000004
L3508 J0HABB000004
L3509 J0HABB000004
L3510 J0HABB000003 J0HAAB000012
L3511 J0HABB000003 J0HAAB000012
L3525 10
L3526 10
L3530 10
L3555 10

D3501 MA3056M
D3502 MA3056M
D3503 MA3056M
D3504 MA3056M
D3505 MA3X15300L
D3506 MA3X15300L
D3507 MA2U11100L

JB1

TP80
TP81
TP97

STB5V
5V
9V
SCL
SDA
DTE-XC
DCE-XC
TXD-XC
RXD-XC
HD
VD
12V
PC VD
PC HD
PC B
PC G
PC Rs
PC R
PC Ls
9VA
GND
VCC
SCL
SDA


JK3301
K1CB106B0027
JK3302
K1QBB2AB0005
JK3300
K2HA204B0097
JK3303
K2HA204B0097
JK3304
K1QBB5AB0003
IC3301
C0JBAR00111
IC3302
C0ABGB000001
Q3301
Q3302
Q3303
Q3304
Q3305
Q3306
Q3307
Q3309
Q3351
Q3352
Q3353
Q3354
Q3355
Q3356
Q3357
Q3358
Q3359
Q3801
Q3802
Q3803
Q3804
Q3805
Q3806
Q3807
Q3808
CHROMA
Y/A_IN
5V
9V
8V

IC3809
C0JBAZ001235
C0JBAZ001296

IC3802
C0EBE0000066
Reset IC

IC3801
C0CBABB00029

IC3804
C1AB00001468
MAIN
GC1
SLV [88]

IC3803 16M SDRAM
C3ABMG000075 C3ABMG000063
C3ABMG000074 C3ABMG000064

IC3806
C0CBABB00029

IC3805
C0CBABB00029

IC3303
C0JBAR000111

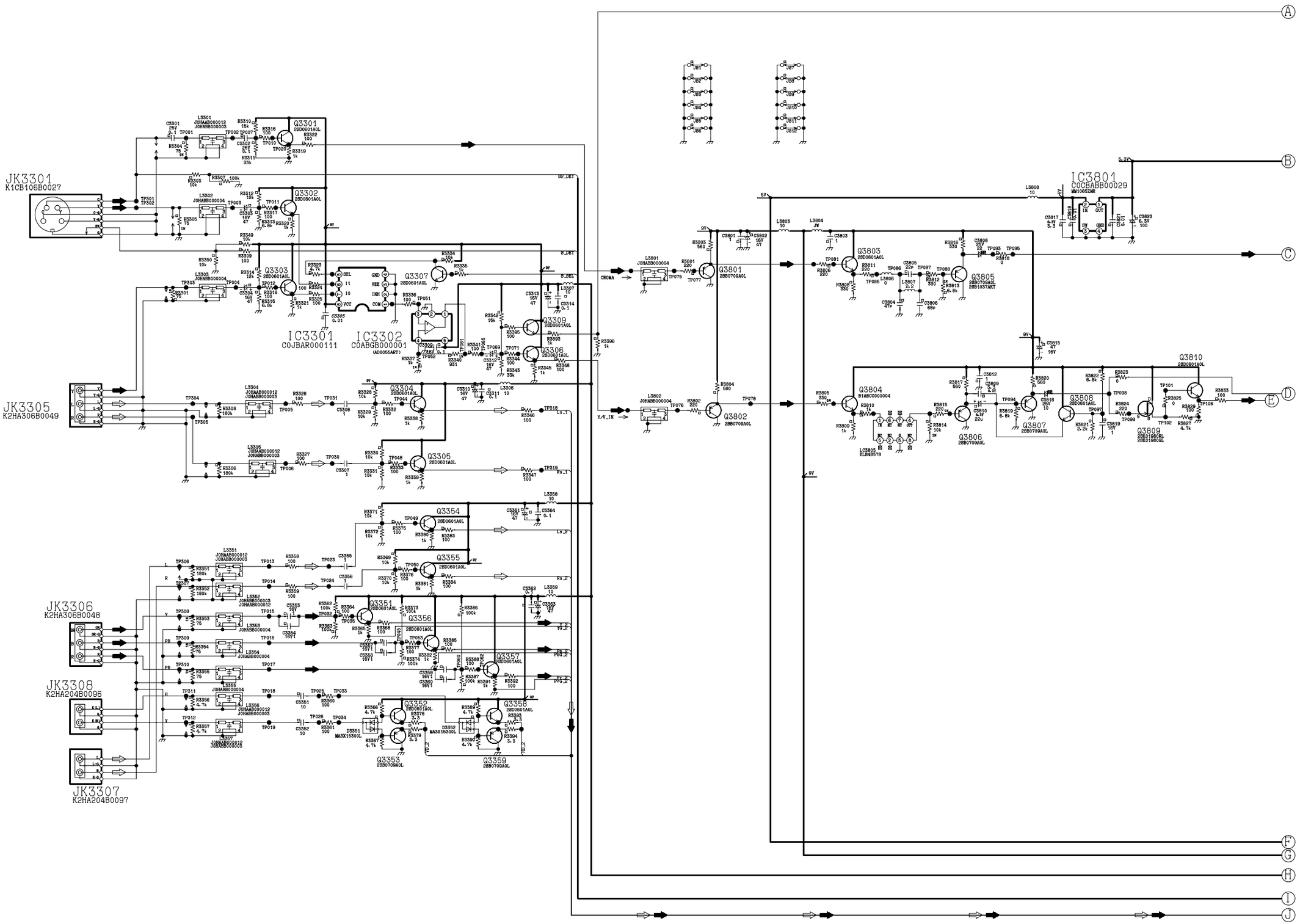
IC3501
C0JBAZ000801
(JLC1562BFEL)

IC3699
C3EAGC000014
C3EAGC000012

Q3308 2SD0601AQL
Q3501 2SD0601AQL
Q3502 2SD0601AQL
Q3503 2SD0601AQL
Q3507 2SB0709AQL
Q3508 2SB0709AQL
Q3509 2SB0709AQL
Q3812 2SB0709AQL
Q3813 2SB0709AQL
Q3815 2SB0709AQL
Q3817 2SB0709AQL
Q3810 2SD0601AQL
Q3809 2SK0196QL

TO H1 (J1)
TO H2 (J2)
TO J-BOARD

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|


JK3301
K1CB106B0027
JK3305
K2HA306B0049
JK3306
K2HA306B0048
JK3308
K2HA204B0096
JK3307
K2HA204B0097
IC3301
C0JBAR000111
IC3302
C0ABGB000001
(AD8055ART)
IC3801
C0CBABB00029
MM1662XMX
Q3301
Q3302
Q3303
Q3304
Q3305
Q3306
Q3307
Q3309
Q3351
Q3352
Q3353
Q3354
Q3355
Q3356
Q3357
Q3358
Q3359
Q3801
Q3802
Q3803
Q3804
Q3805
Q3806
Q3807
Q3808
Q3809
Q3810
2SD0601A0L
2SB0709A0L
CHROMA
Y/_IN
B2_DET
B_DET
J81
J82
J83
J84
J85
J86
J87
J88
J89
J810
J811
J812
A
B
C
D
E
F
G
H
I
J

IC3802
C0EBE0000066
P87P1268NR
Reset IC

IC3804
C1AB00001468
MAIN
GC1
SLV [88]

IC3809
C0JBAZ001235
C0JBAZ001296

IC3303
C0JBAR000111

IC3501
C0JBAZ000801 (JLC1562BFEL)

IC3699
C3EAGC000014
C3EAGC000012

IC3803 16M SDRAM
C3ABMG000075 C3ABMG000063
C3ABMG000074 C3ABMG000064

IC3806
C0CBABB00029

IC3805
C0CBABB00029

Q3308
Q3501
Q3502
Q3503
Q3507
Q3508
Q3509
Q3812
Q3813
Q3815
Q3817

TO H1 J-BOARD (J1)

TO H2 J-BOARD (J2)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

J-BOARD
TNPA2244N (1/3)

J1

J2

J3
TO
HX-BOARD
(HX1)

J8
TO
D-BOARD
(DB)

IC8001
C1AA00000392

IC8002
C0JBAB00026

IC8003
C0JBAZ001235
C0JBAZ001296

IC3001
C1AB00001139
AV SW

IC3002
C0JBAR000241

IC3003
C0JBAR000241

IC3004
C1AB00000441
SLV [4C]

IC3008
C0CBAKG00003

IC3009
C0JBAS000109

Q3001 2SC2480GVL
Q3002 2SB709A0L
Q3003 2SC2480GVL
Q3004 2SB709A0L
Q3005 2SC2480GVL
Q3006 2SB709A0L
Q3007 2SB709A0L
Q3008 2SC2480GVL
Q3009 2SB709A0L
Q3010 2SC2480GVL
Q3011 2SB709A0L
Q3012 2SC2480GVL
Q8021 2SD601A0L
Q8030 2SD601A0L
Q3085 2SB709A0L
Q2408 2SD601A0L
Q2410 2SD601A0L

D8001 MA2J111001
D8002 MA2J111001

TP3009 M1FS4F4063

| | |
|---|---|
| A | |
| B | |
| C | |
| D | |
| E | |
| F | |
| G | |
| H | |
| I | |
| J | |
| K | |
| L | |
| M | |
| N | |
| O | |
| P | |

1 2 3 4 5 6 7 8 9

# J-BOARD TNPA2244N (2/3)

## IC951
C0DBAZH00006
MD1222N

## IC3006
COCBAHG00005

## IC3007
COCBAKG00003

TO D-BOARD (D6)

TO T12-BOARD (T14)

## IC1001
C0JBAD000146

## IC1002
C2BBFE000106

## IC1003
C0EBB0000024

## IC1004
C1DB00000274

Q951 2SD0601A0L
Q1001 2SD0601A0L
Q1002 2SD0601A0L
Q1003 2SD0601A0L
Q1004 2SB0709A0L
Q1005 2SB0709A0L
Q3086 2SB0709A0L

J3001 IIC BUSCON.
J3002
J9
J14

X1001 HOJ32F200038 32.768K
X1002 HOJ921400003 12.5MHz

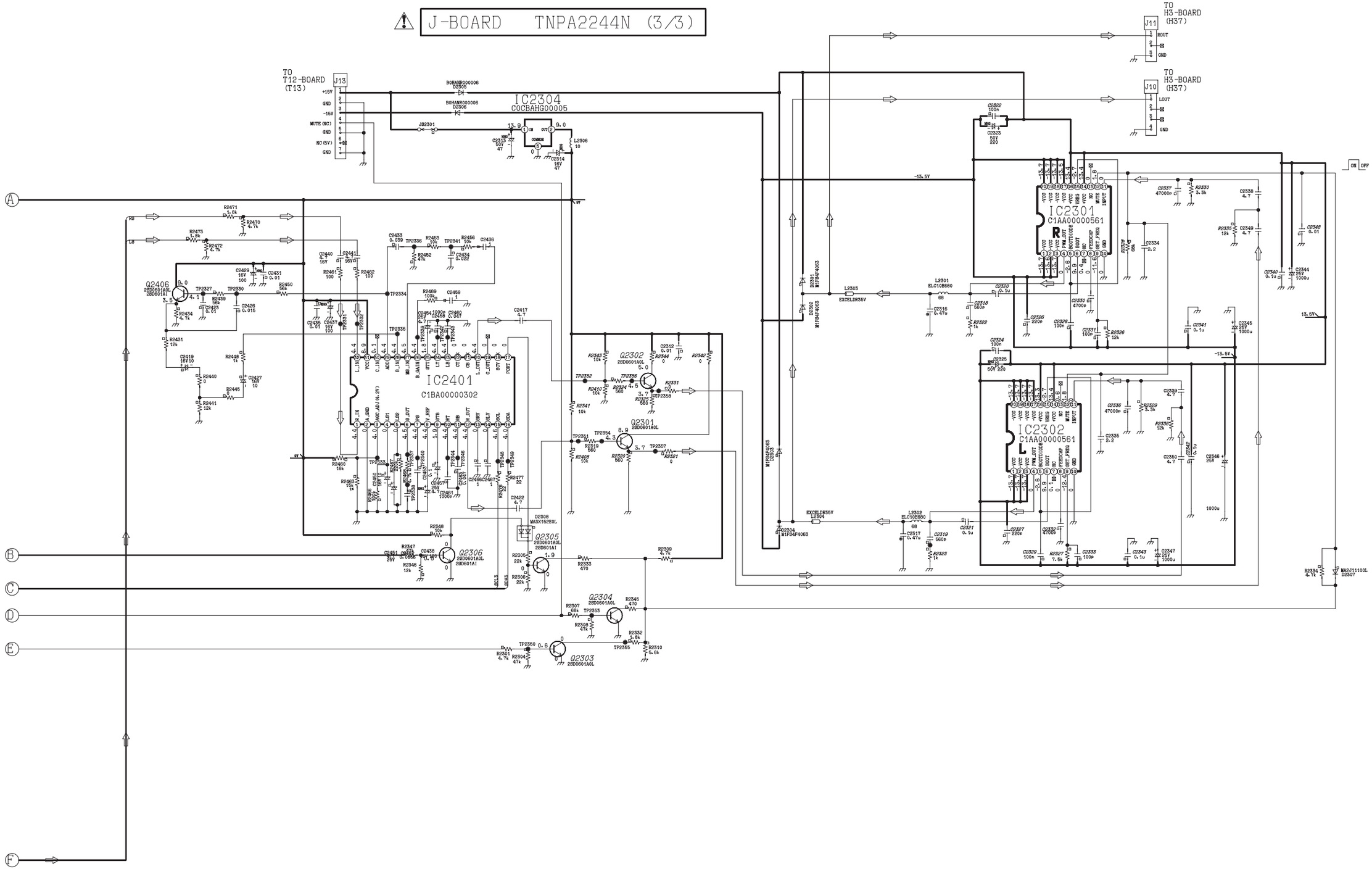
R1001 EXB36V330JV
R1002 EXB36V330JV
R1003 EXB36V330JV
R1004 EXB36V330JV

D3001 MA2J111100L
D951 MA2J111100L
D1001 MA2J111100L

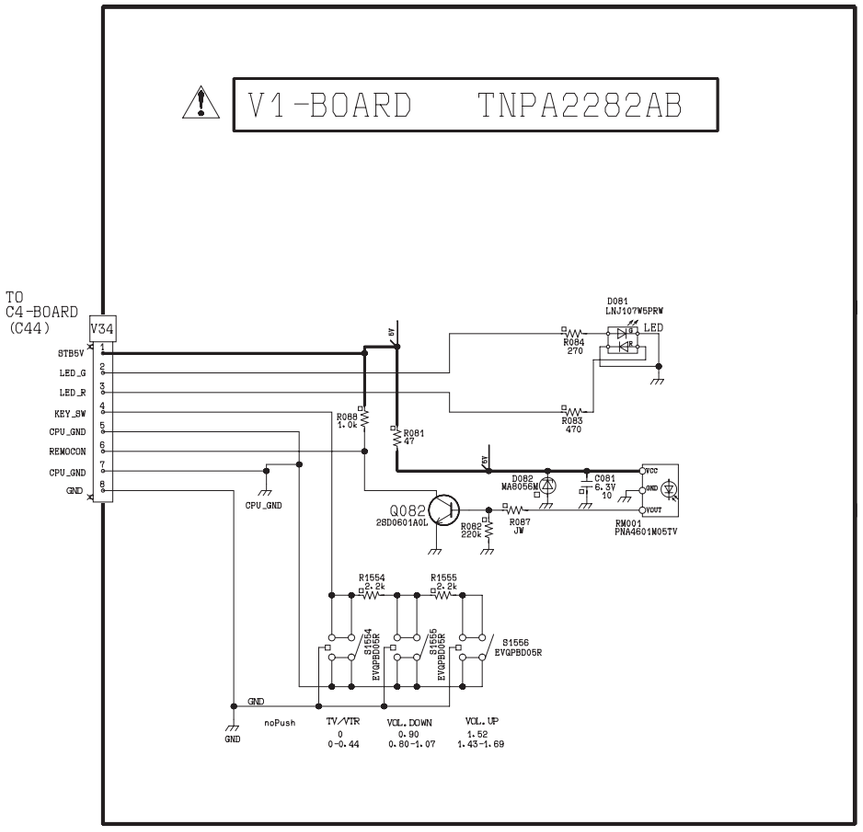
L951 2.0
L952 10 G1C100M00023
L953
L1001 10
L1002 10
L2401 10

RSM-5N700010

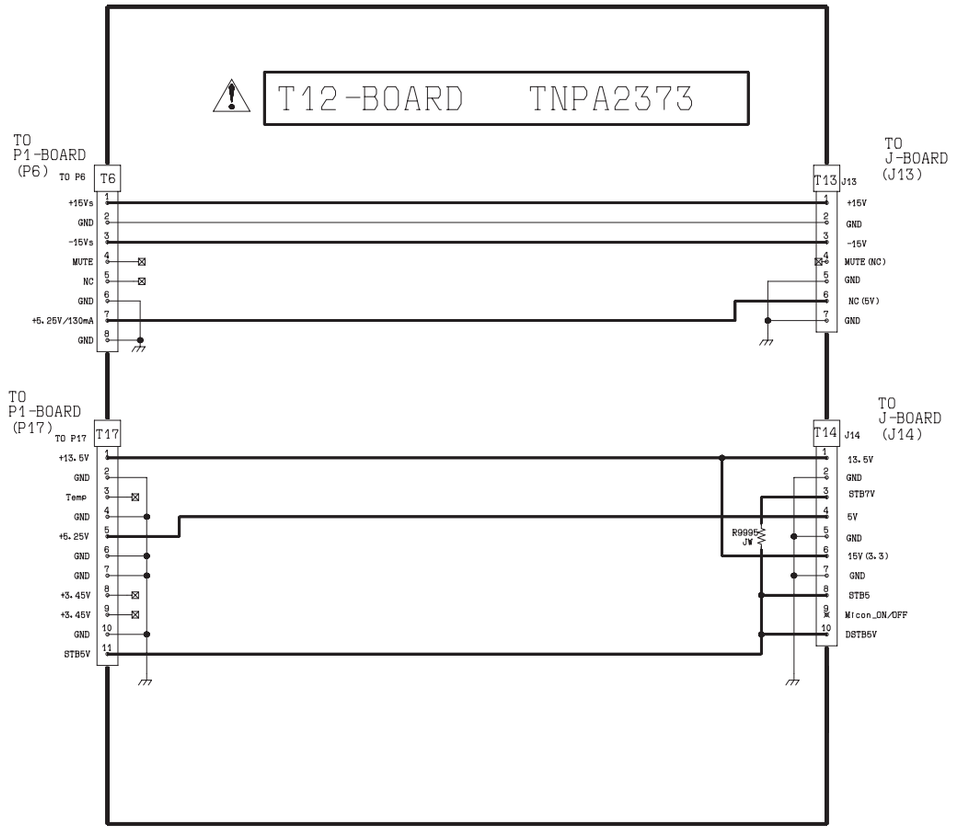
# J-BOARD TNPA2244N (3/3)

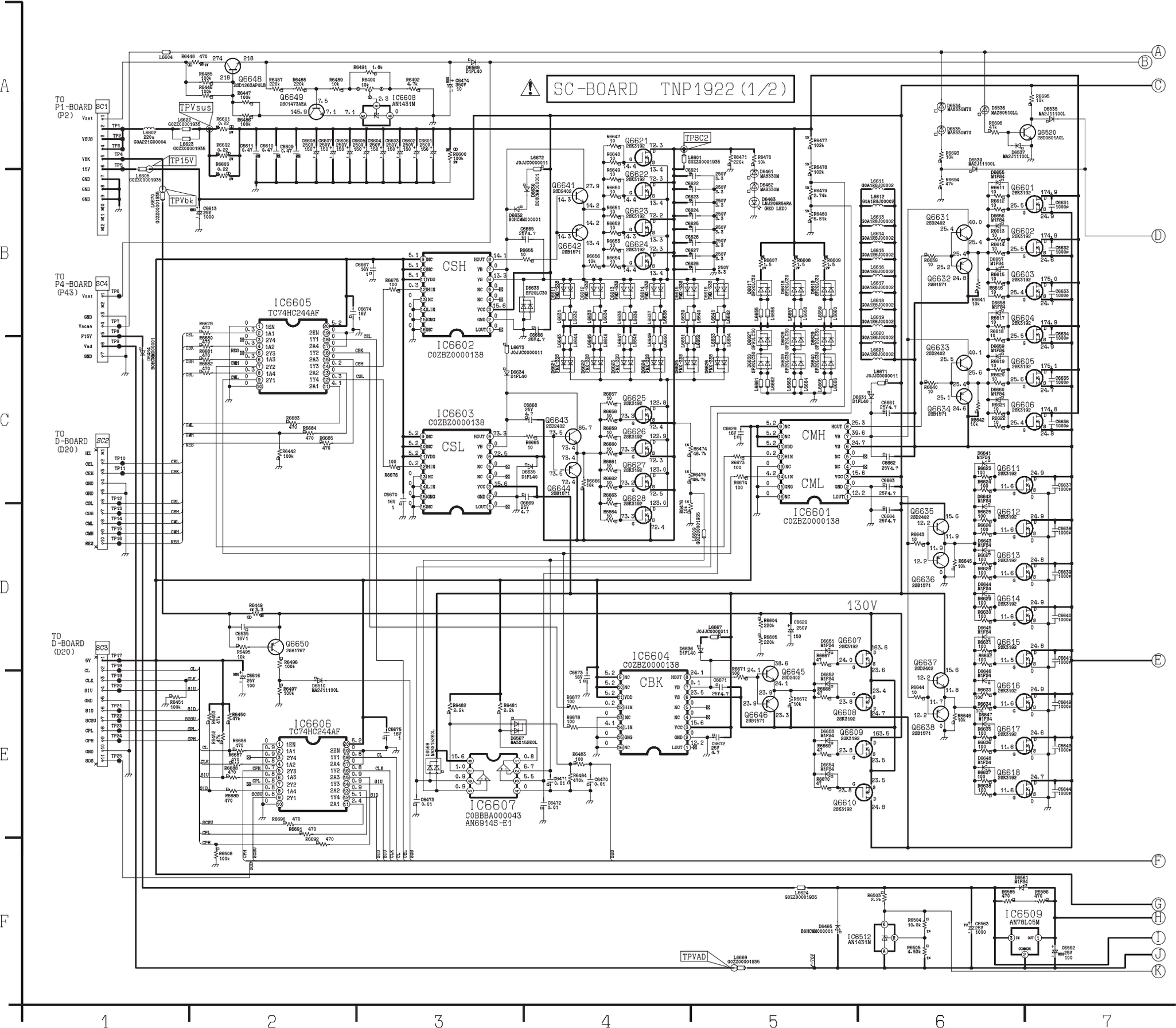


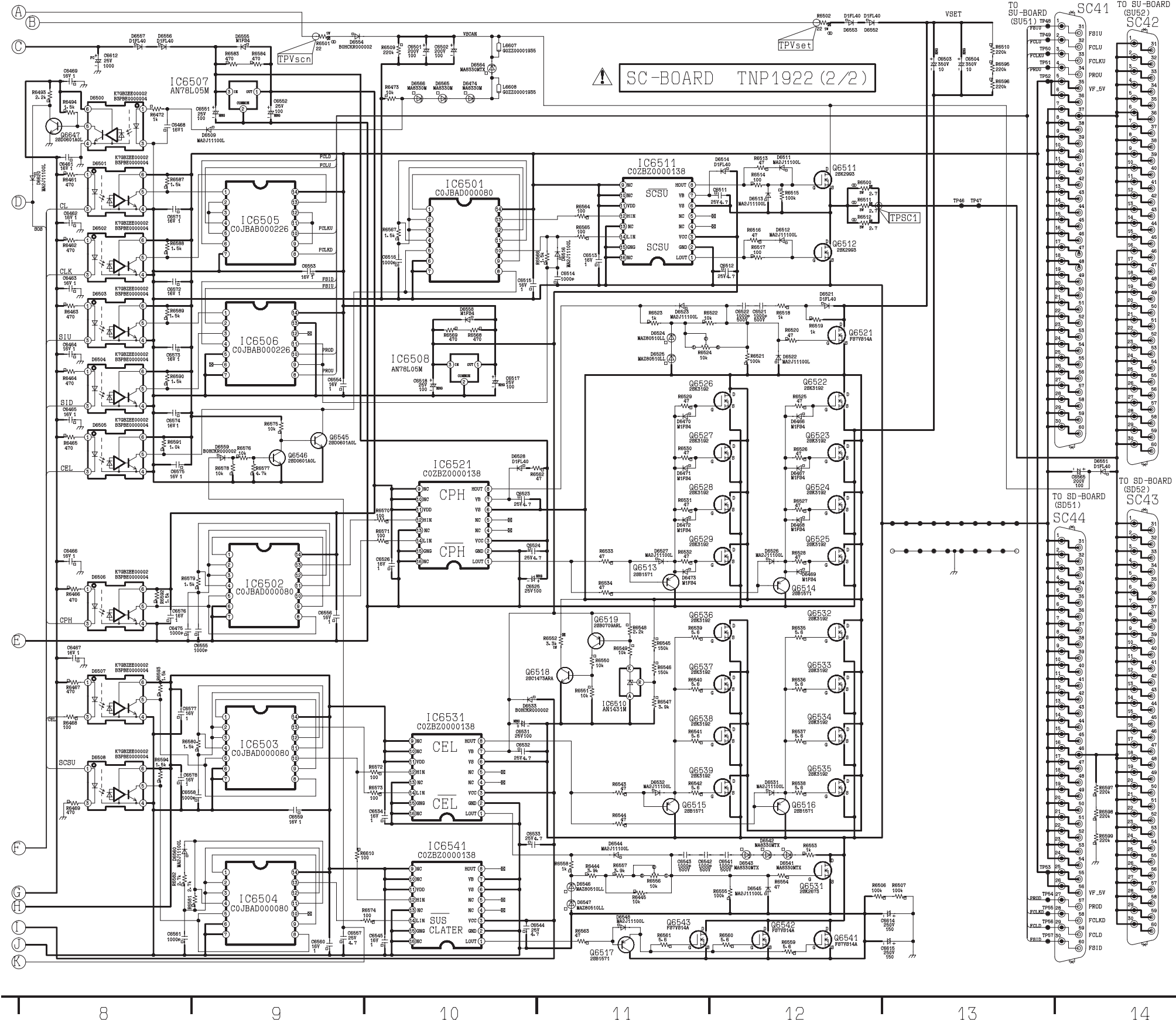
## ⚠ V1-BOARD TNPA2282AB

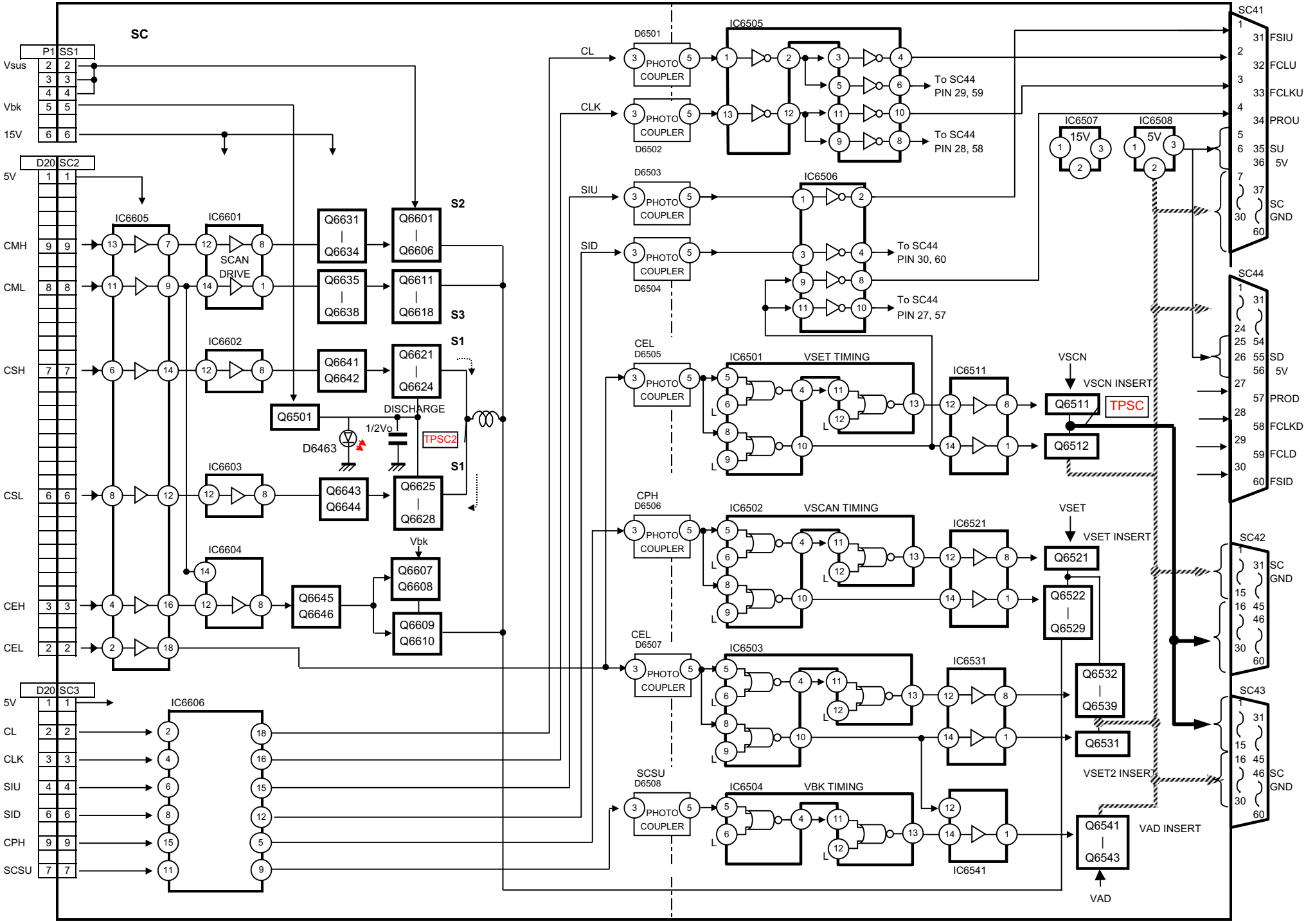



## ⚠ T12-BOARD TNPA2373

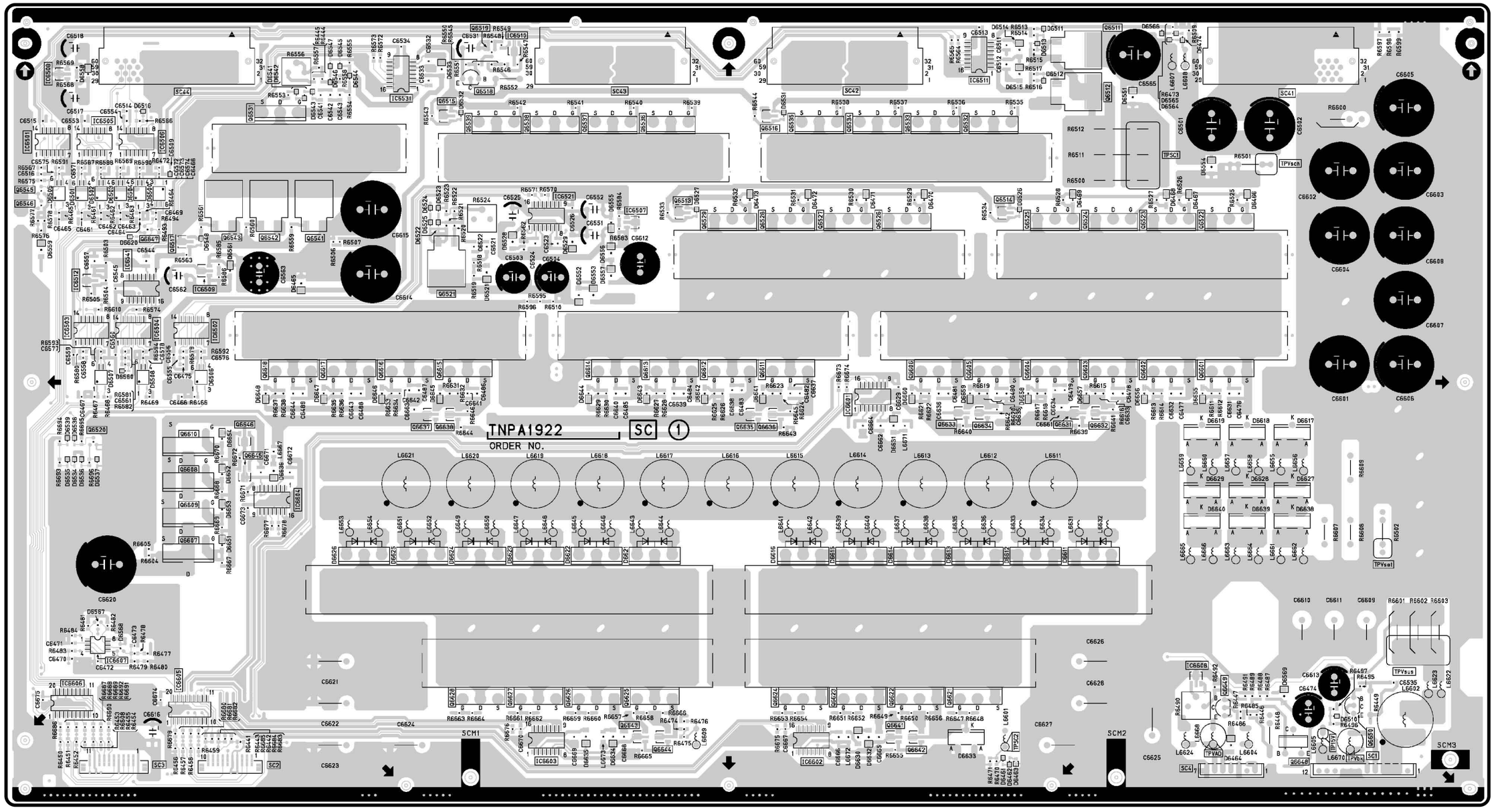



SC-BOARD TNP1922(1/2)
TO P1-BOARD (P2)
TO P4-BOARD (P43)
TO D-BOARD (D20)
TO D-BOARD (D20)
IC6605 TC74HC244AF
IC6606 TC74HC244AF
IC6602 C0ZBZ0000138
IC6603 C0ZBZ0000138
IC6604 C0ZBZ0000138
IC6601 C0ZBZ0000138
IC6607 C0BBBA000043 AN6914S-E1
IC6509 AN76L05M
IC6512 AN1431M
CSH
CSL
CBK
CMH
CML
130V
TPVsus
TP15V
TPVbk
TPSC2
TPVAD

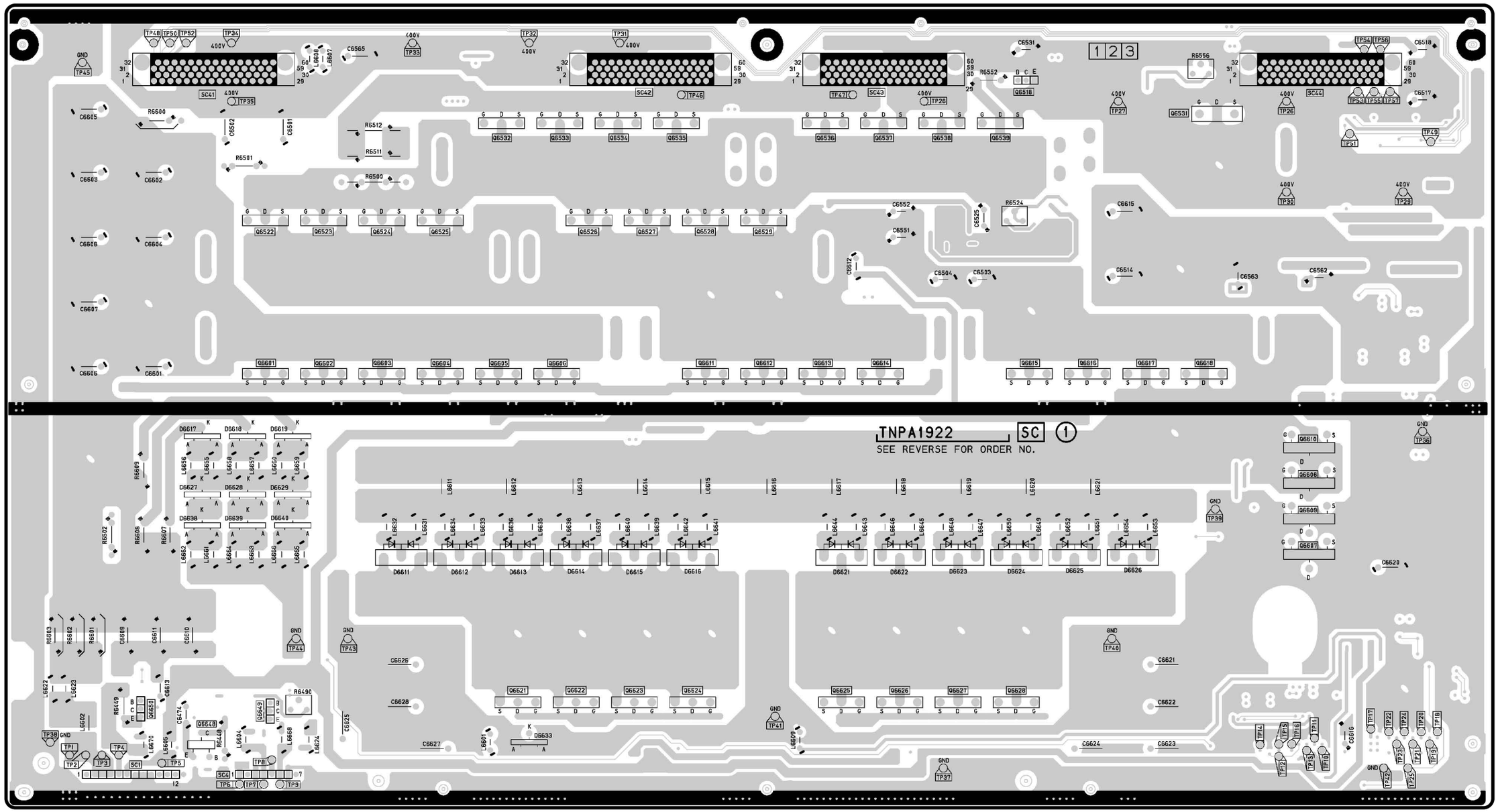

SC-BOARD TNP1922(2/2)
TPVscn
TPVset
VSET
VSCAN
IC6507 AN78L05M
IC6508 AN78L05M
IC6501 C0JBAD000080
IC6502 C0JBAD000080
IC6503 C0JBAD000080
IC6504 C0JBAD000080
IC6505 C0JBAB000226
IC6506 C0JBAB000226
IC6511 C0ZBZ0000138
IC6521 C0ZBZ0000138
IC6531 C0ZBZ0000138
IC6541 C0ZBZ0000138
IC6510 AN1431M
SCSU
CPH
CEL
SUS CLATER
TO SU-BOARD (SU51)
TO SU-BOARD (SU52)
TO SD-BOARD (SD51)
TO SD-BOARD (SD52)
SC41
SC42
SC43
SC44
TPSC1
FSIU
FCLU
FCLKU
PROU
VF_5V
PROD
FCLKD
FCLD
FSID

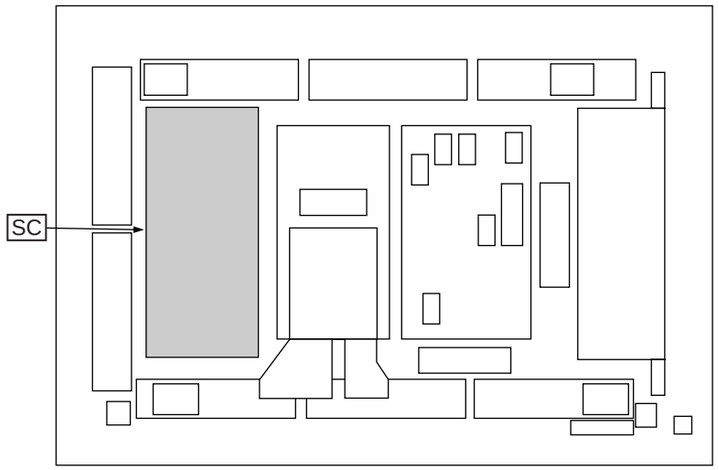

SC
P1 SS1
Vsus
Vbk
15V
D20 SC2
5V
CMH
CML
CSH
CSL
CEH
CEL
D20 SC3
5V
CL
CLK
SIU
SID
CPH
SCSU
IC6605
IC6601
IC6602
IC6603
IC6604
IC6606
SCAN DRIVE
Q6631 Q6634
Q6635 Q6638
Q6641 Q6642
Q6643 Q6644
Q6645 Q6646
Q6601 Q6606
Q6611 Q6618
Q6621 Q6624
Q6625 Q6628
Q6607 Q6608
Q6609 Q6610
S2
S3
S1
S1
Q6501
DISCHARGE
1/2Vo
D6463
TPSC2
Vbk
D6501
D6502
D6503
D6504
D6505
D6506
D6507
D6508
PHOTO COUPLER
IC6505
IC6506
IC6501
VSET TIMING
IC6502
VSCAN TIMING
IC6503
IC6504
VBK TIMING
IC6511
IC6521
IC6531
IC6541
To SC44 PIN 29, 59
To SC44 PIN 28, 58
To SC44 PIN 30, 60
To SC44 PIN 27, 57
VSCN
VSCN INSERT
Q6511
TPSC
Q6512
VSET
VSET INSERT
Q6521
Q6522 Q6529
Q6532 Q6539
Q6531
VSET2 INSERT
Q6541 Q6543
VAD INSERT
VAD
IC6507
15V
IC6508
5V
SC41
FSIU
FCLU
FCLKU
PROU
SU
5V
SC GND
SC44
SD
5V
PROD
FCLKD
FCLD
FSID
SC42
SC GND
SC43
SC GND

## SC-BOARD (COMPONENT SIDE)
## TNPA1922



## SC-BOARD (FOIL SIDE)
## TNPA1922






## PARTS LOCATION

### SC-BOARD (FOIL SIDE)

**TRANSISTOR**

| | |
|---|---|
| Q6510 | F-5 |
| Q6522 | B-4 |
| Q6523 | C-4 |
| Q6524 | C-4 |
| Q6525 | C-4 |
| Q6526 | D-4 |
| Q6527 | D-4 |
| Q6528 | E-4 |
| Q6529 | E-4 |
| Q6531 | G-5 |
| Q6532 | D-5 |
| Q6533 | D-5 |
| Q6534 | D-5 |
| Q6535 | E-5 |
| Q6536 | E-5 |
| Q6537 | F-5 |
| Q6538 | F-5 |
| Q6539 | F-5 |
| Q6601 | B-3 |
| Q6602 | C-3 |
| Q6603 | C-3 |
| Q6604 | C-3 |
| Q6605 | D-3 |
| Q6606 | D-3 |
| Q6607 | H-2 |
| Q6608 | H-3 |
| Q6609 | H-3 |
| Q6610 | H-3 |
| Q6611 | E-3 |
| Q6612 | E-3 |
| Q6613 | E-3 |
| Q6614 | F-3 |
| Q6615 | F-3 |
| Q6615 | G-3 |
| Q6616 | G-3 |
| Q6617 | G-3 |
| Q6618 | G-3 |
| Q6621 | D-2 |
| Q6622 | D-2 |
| Q6623 | D-2 |
| Q6624 | E-2 |
| Q6625 | F-2 |
| Q6626 | F-2 |
| Q6627 | F-2 |
| Q6628 | F-2 |
| Q6648 | B-1 |
| Q6649 | B-2 |
| Q6650 | B-2 |

**TEST POINT**

| | |
|---|---|
| TP1 | A-1 |
| TP2 | A-1 |
| TP3 | B-1 |
| TP4 | B-1 |
| TP5 | B-1 |
| TP6 | B-1 |
| TP7 | B-1 |
| TP8 | B-1 |
| TP9 | B-1 |
| TP10 | H-1 |
| TP11 | H-1 |
| TP12 | H-1 |
| TP13 | H-1 |
| TP14 | H-1 |
| TP15 | H-1 |
| TP16 | H-1 |
| TP17 | H-1 |
| TP18 | I-1 |
| TP19 | I-1 |
| TP20 | I-1 |
| TP21 | I-1 |
| TP22 | H-1 |
| TP23 | I-1 |
| TP24 | I-1 |
| TP25 | I-1 |
| TP26 | H-5 |
| TP27 | G-5 |
| TP28 | F-5 |
| TP29 | I-4 |
| TP30 | H-4 |
| TP31 | D-5 |
| TP32 | D-5 |
| TP33 | C-5 |
| TP34 | B-5 |
| TP35 | B-5 |
| TP36 | I-3 |
| TP37 | F-1 |
| TP38 | A-1 |
| TP39 | G-3 |
| TP40 | G-2 |
| TP41 | E-1 |
| TP42 | H-1 |
| TP43 | C-2 |
| TP44 | C-2 |
| TP45 | A-5 |
| TP47 | F-5 |
| TP48 | B-5 |
| TP49 | I-5 |
| TP50 | B-5 |
| TP51 | H-5 |
| TP52 | B-5 |
| TP53 | H-5 |
| TP54 | H-5 |
| TP55 | H-5 |
| TP56 | H-5 |
| TP57 | H-5 |

ADDRESS INFORMATION

## PARTS LOCATION

### SC-BOARD (COMPONENT SIDE)

**IC**

| | |
|---|---|
| IC6500 | A-5 |
| IC6501 | A-5 |
| IC6502 | B-4 |
| IC6503 | A-4 |
| IC6504 | B-4 |
| IC6505 | A-5 |
| IC6506 | B-5 |
| IC6507 | D-4 |
| IC6509 | B-4 |
| IC6510 | D-5 |
| IC6511 | F-5 |
| IC6512 | A-4 |
| IC6521 | D-4 |
| IC6531 | C-5 |
| IC6541 | B-4 |
| IC6601 | F-3 |
| IC6602 | E-1 |
| IC6603 | D-1 |
| IC6604 | C-3 |
| IC6605 | B-2 |
| IC6606 | A-2 |
| IC6607 | B-2 |
| IC6608 | G-2 |

**TRANSISTOR**

| | |
|---|---|
| Q6511 | G-5 |
| Q6512 | G-5 |
| Q6513 | E-4 |
| Q6514 | F-4 |
| Q6515 | C-5 |
| Q6516 | E-5 |
| Q6517 | B-4 |
| Q6518 | D-5 |
| Q6519 | D-5 |
| Q6521 | C-4 |
| Q6522 | G-4 |
| Q6523 | G-4 |
| Q6524 | G-4 |
| Q6525 | G-4 |
| Q6526 | F-4 |
| Q6527 | E-4 |
| Q6528 | A-3 |
| Q6528 | E-4 |
| Q6529 | E-4 |
| Q6531 | B-5 |
| Q6532 | F-5 |
| Q6533 | F-5 |
| Q6534 | F-5 |
| Q6535 | E-5 |
| Q6536 | D-5 |
| Q6537 | D-5 |
| Q6538 | D-5 |
| Q6539 | D-5 |
| Q6541 | C-4 |
| Q6542 | B-4 |
| Q6543 | B-4 |
| Q6545 | A-4 |
| Q6546 | A-4 |
| Q6601 | G-3 |
| Q6602 | G-3 |
| Q6603 | G-3 |
| Q6604 | G-3 |
| Q6605 | F-3 |
| Q6606 | F-3 |
| Q6607 | B-2 |
| Q6608 | B-3 |
| Q6609 | B-3 |
| Q6610 | B-3 |
| Q6611 | E-3 |
| Q6612 | E-3 |
| Q6613 | D-3 |
| Q6614 | D-3 |
| Q6615 | C-3 |
| Q6616 | C-3 |
| Q6617 | C-3 |
| Q6618 | B-3 |
| Q6621 | F-2 |
| Q6622 | F-2 |
| Q6624 | E-2 |
| Q6625 | D-2 |
| Q6626 | D-2 |
| Q6627 | D-2 |
| Q6628 | C-2 |
| Q6631 | G-3 |
| Q6632 | G-3 |
| Q6633 | F-3 |
| Q6634 | F-3 |
| Q6635 | E-3 |
| Q6636 | E-3 |
| Q6641 | F-1 |
| Q6642 | F-1 |
| Q6643 | D-1 |
| Q6644 | E-1 |
| Q6645 | B-3 |
| Q6646 | B-3 |
| Q6648 | H-1 |
| Q6649 | H-2 |
| Q6650 | H-1 |

**TEST POINT**

| | |
|---|---|
| TP15V | H-1 |
| TPSC1 | G-5 |
| TPSC2 | F-1 |
| TPVAD | H-1 |
| TPVbk | H-1 |
| TPVscn | H-5 |
| TPVset | H-2 |

ADDRESS INFORMATION

# 13 Block and Schematic Diagrams

## 13.1. Schematic Diagram Notes

**Important Safety Notice**

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

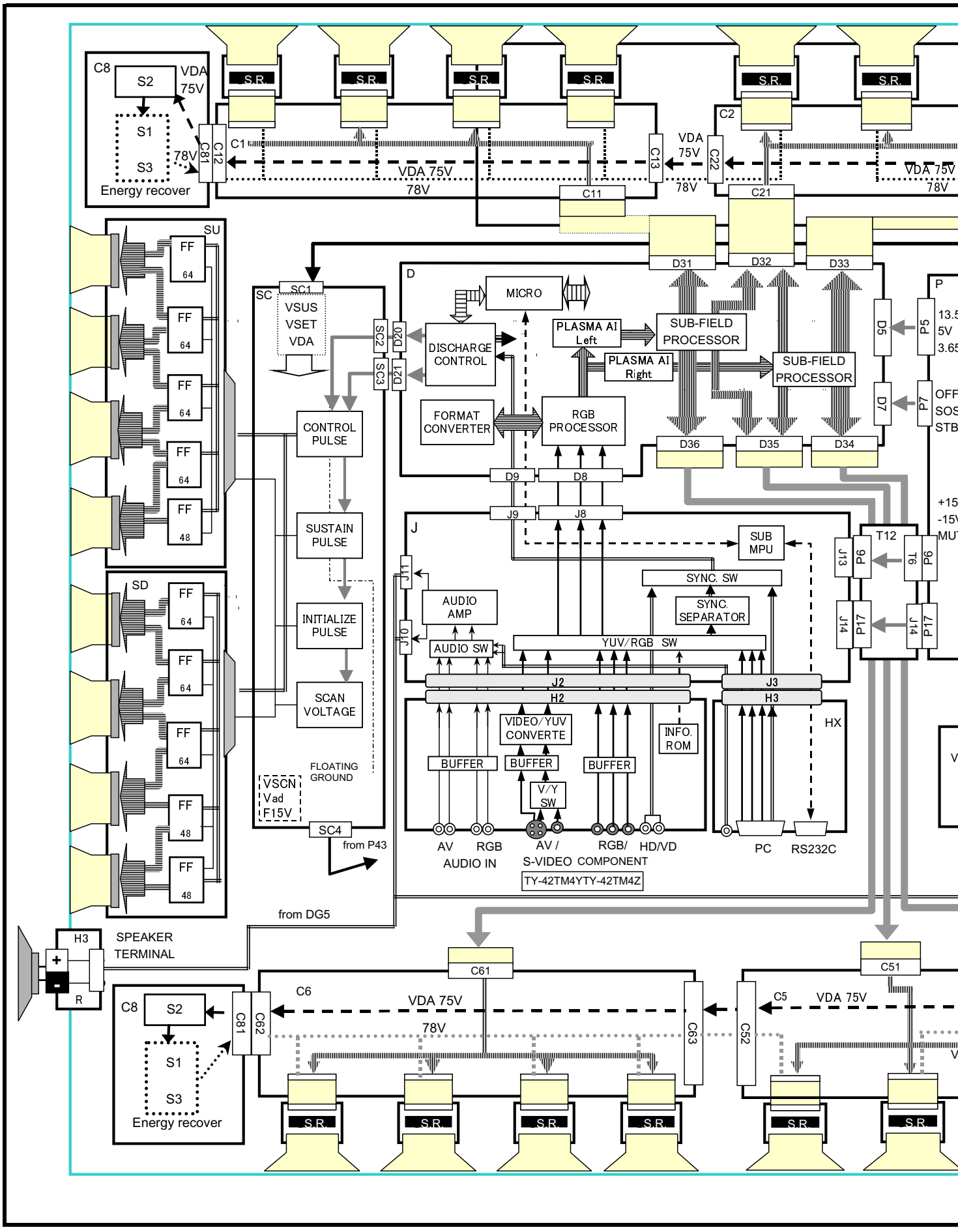
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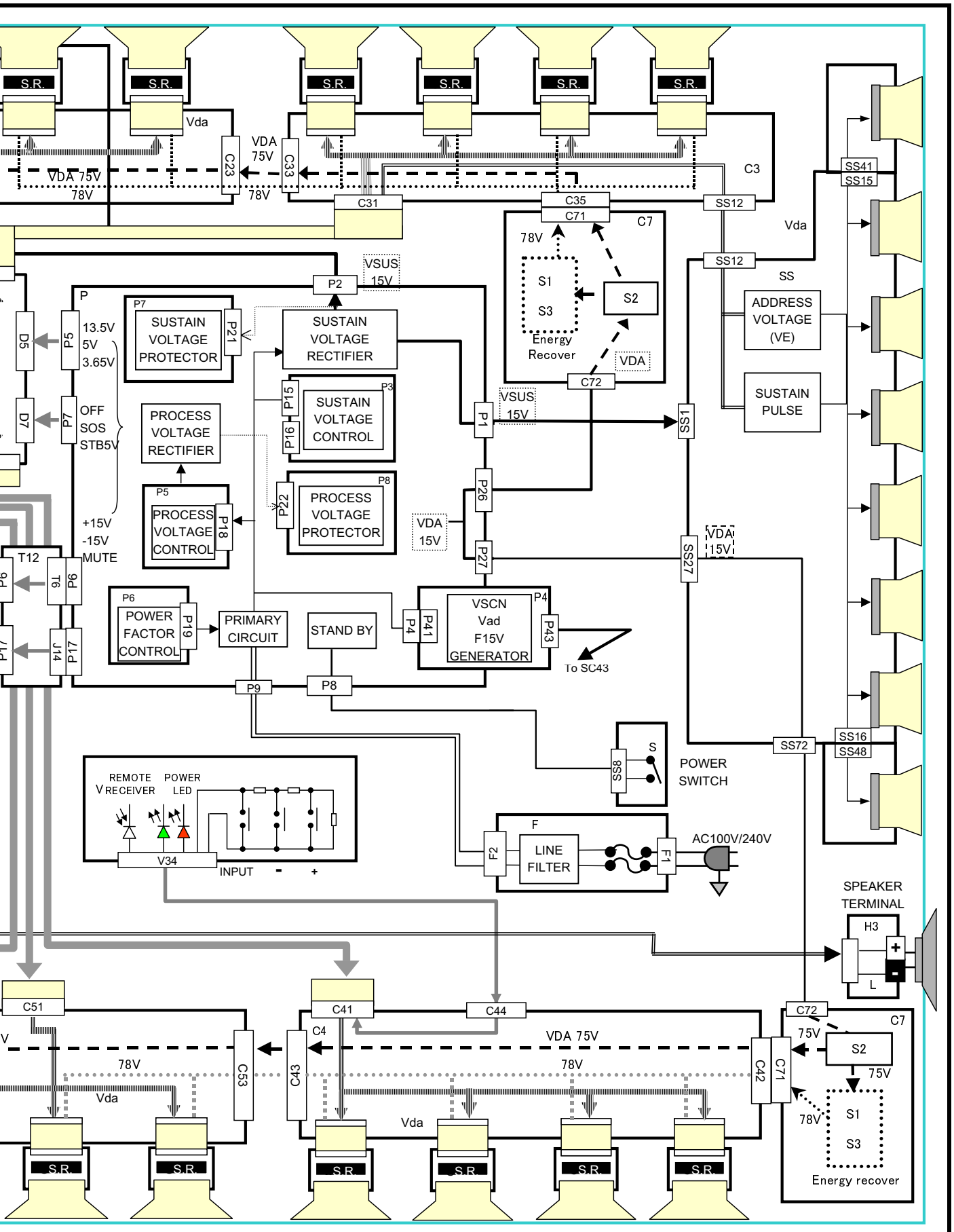
1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω](K=1,000, M=1,000,000).
   - ◯ : Nonflammable
   - △ : Solid
   - ▨ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - M : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   - + : Electrolytic
   - NP : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   - ı : Test Point position
5. Earth Symbol
   - ⏚ : Chassis Earth (Cold)
   - ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   - Power Source ..... AC 220V-240V, 50/60Hz
   - Receiving Signal ..... Colour Bar signal (RF)
   - All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark ( ↗ ) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without

**Remarks:**

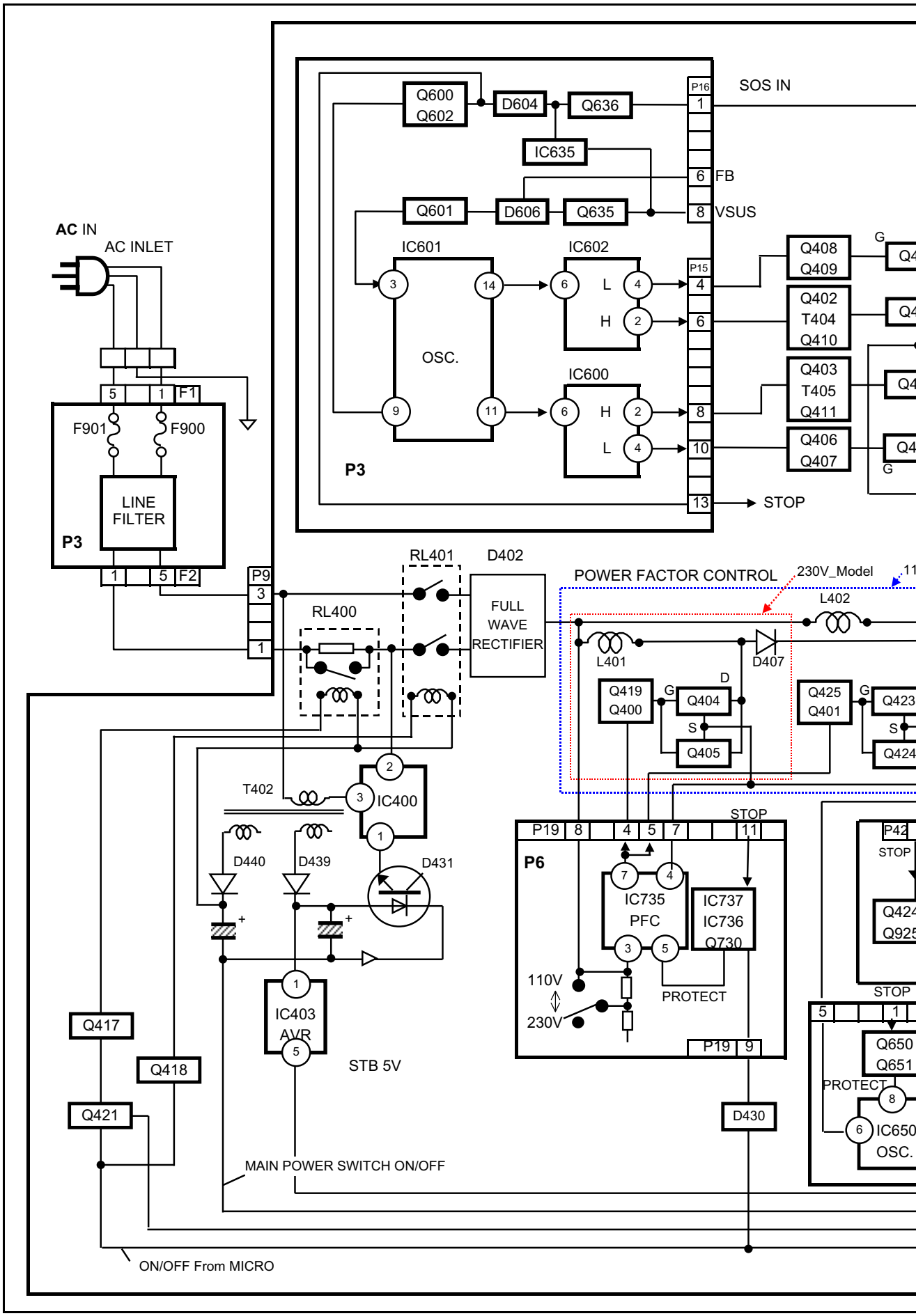
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

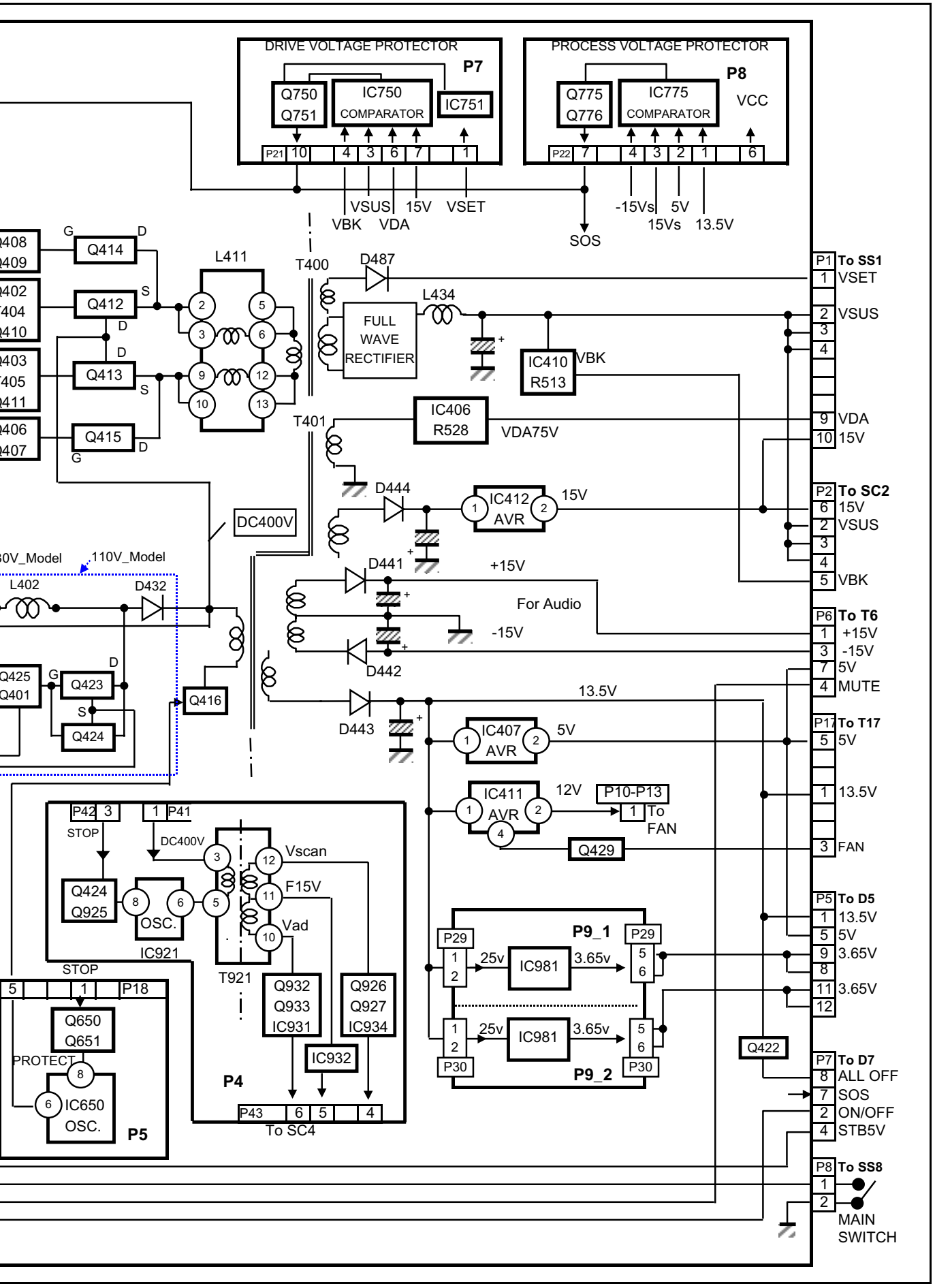
## 13.2. Main Block Diagram



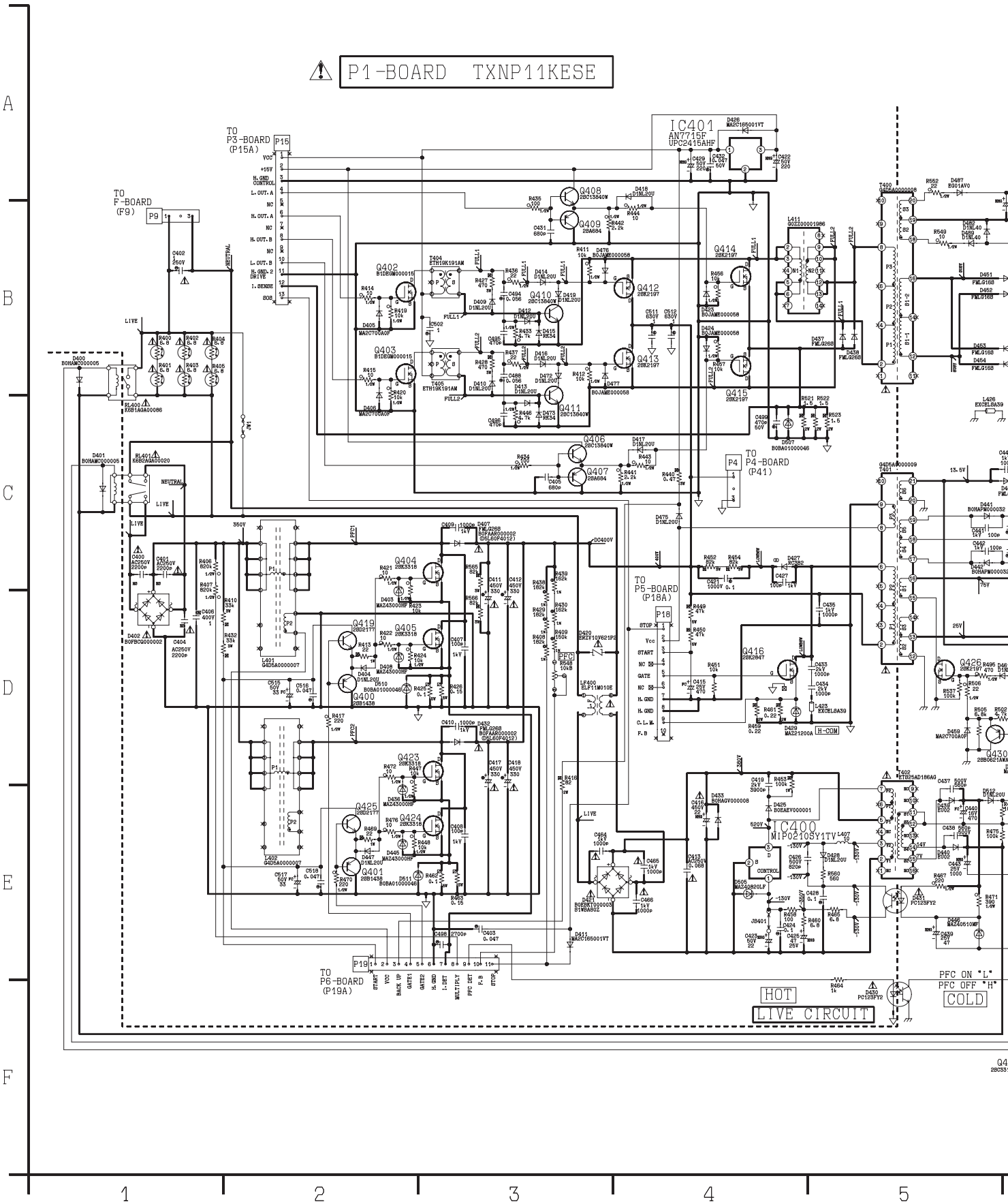

S.R.
Vda
VDA 75V
78V
C23
C33
C31
C3
C35
C71
C7
SS12
SS41
SS15
VSUS 15V
P2
P
P7
SUSTAIN VOLTAGE PROTECTOR
P21
SUSTAIN VOLTAGE RECTIFIER
S1
S3
S2
Energy Recover
VDA
C72
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
SS
D5
P5
13.5V
5V
3.65V
D7
P7
OFF
SOS
STB5V
P15
P16
P3
SUSTAIN VOLTAGE CONTROL
P1
SS1
PROCESS VOLTAGE RECTIFIER
P5
PROCESS VOLTAGE CONTROL
P18
P22
P8
PROCESS VOLTAGE PROTECTOR
P26
P27
SS27
+15V
-15V
MUTE
T12
T6
P6
J14
P17
P6
POWER FACTOR CONTROL
P19
PRIMARY CIRCUIT
STAND BY
P4
P41
P43
VSCN
Vad
F15V
GENERATOR
To SC43
P9
P8
SS8
S
POWER SWITCH
SS72
SS16
SS48
REMOTE RECEIVER
POWER LED
V34
INPUT
F
F2
LINE FILTER
F1
AC100V/240V
SPEAKER TERMINAL
H3
L
C51
C41
C44
C4
C53
C43
C42
C71
C72
C7
75V
78V
Vda
Energy recover

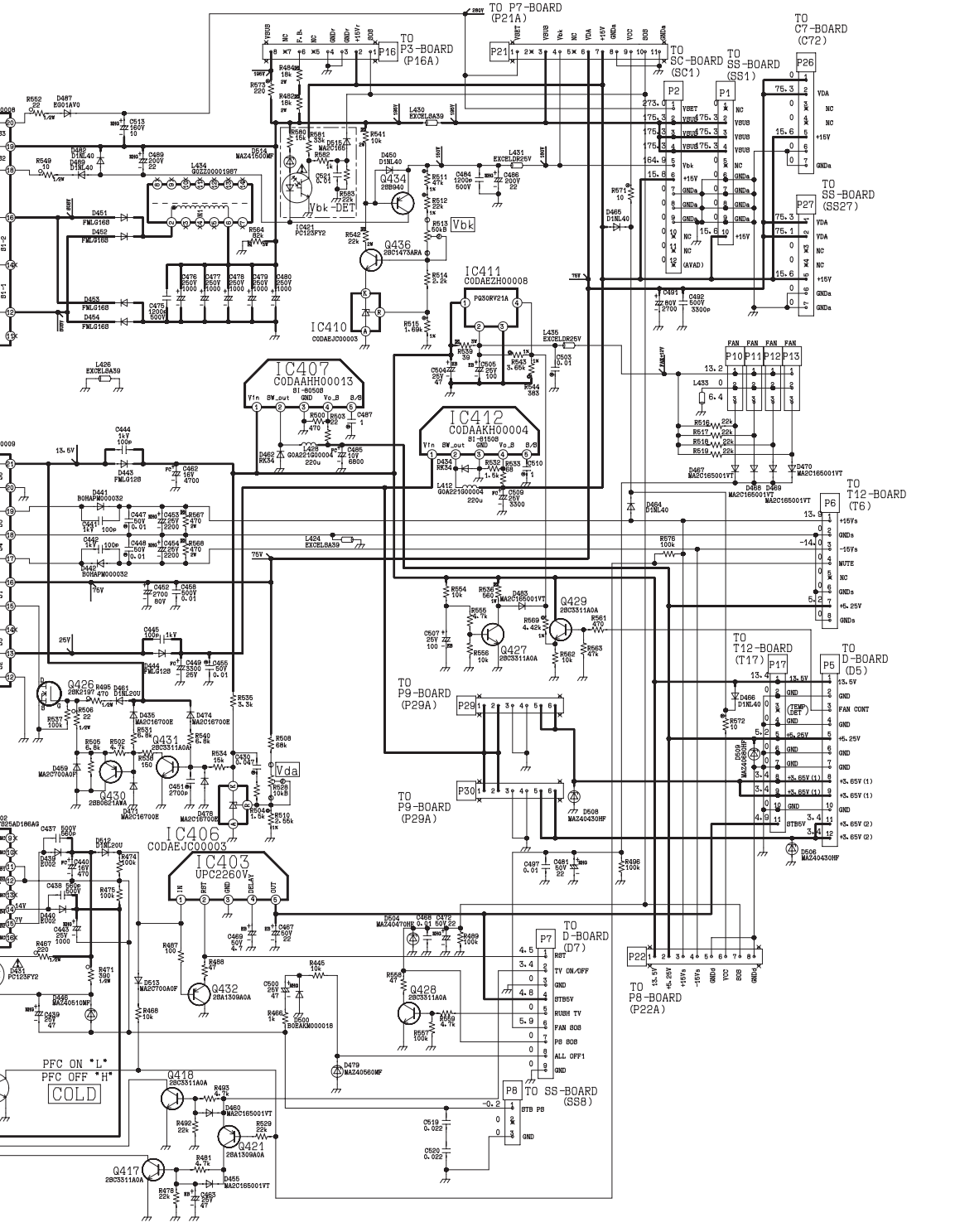
## 13.3. Power (F, P1, P3, P4, P5, P6, P7, P8 and P9 Board) Block Diagram



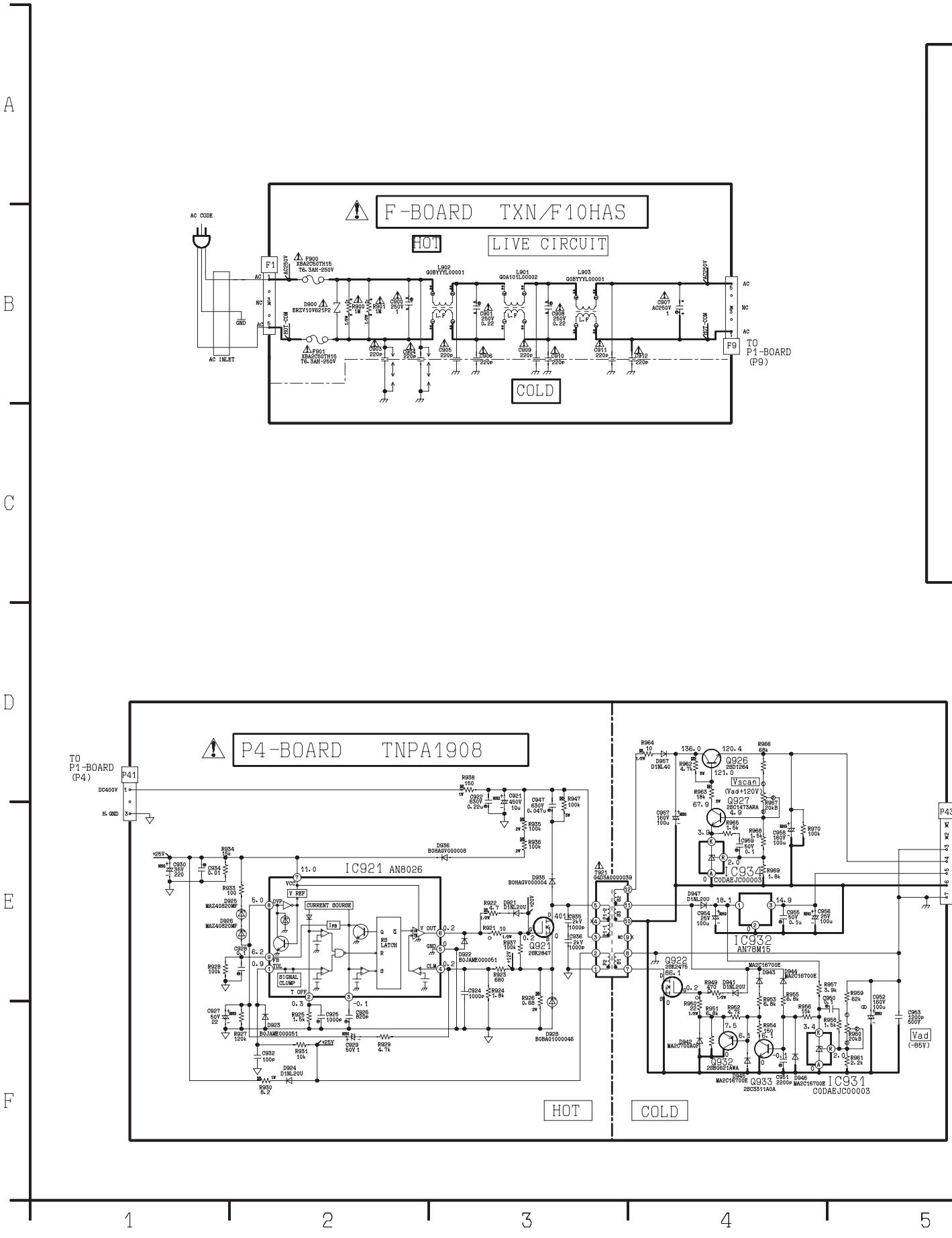

DRIVE VOLTAGE PROTECTOR
P7
Q750
Q751
IC750
COMPARATOR
IC751
PROCESS VOLTAGE PROTECTOR
P8
VCC
Q775
Q776
IC775
COMPARATOR
P21 10 4 3 6 7 1
P22 7 4 3 2 1 6
VBK
VSUS
VDA
15V
VSET
SOS
-15Vs
5V
15Vs
13.5V
Q414
Q412
Q413
Q415
L411
T400
T401
D487
L434
FULL
WAVE
RECTIFIER
IC410
R513
VBK
IC406
R528
VDA75V
D444
IC412
AVR
15V
D441
+15V
For Audio
-15V
D442
13.5V
D443
IC407
AVR
5V
IC411
AVR
12V
P10-P13
To
FAN
Q429
DC400V
110V_Model
L402
D432
Q423
Q424
Q416
P42 3
1 P41
STOP
DC400V
Vscan
F15V
Vad
Q424
Q925
OSC.
IC921
T921
Q932
Q933
IC931
Q926
Q927
IC934
IC932
P4
P43 6 5 4
To SC4
STOP
5 1 P18
Q650
Q651
PROTECT
IC650
OSC.
P5
P9_1
P9_2
P29
P30
25v
IC981
3.65v
Q422
P1 To SS1
1 VSET
2 VSUS
3
4
9 VDA
10 15V
P2 To SC2
6 15V
2 VSUS
3
4
5 VBK
P6 To T6
1 +15V
3 -15V
7 5V
4 MUTE
P17 To T17
5 5V
1 13.5V
3 FAN
P5 To D5
1 13.5V
5 5V
9 3.65V
8
11 3.65V
12
P7 To D7
8 ALL OFF
7 SOS
2 ON/OFF
4 STB5V
P8 To SS8
1
2
MAIN
SWITCH

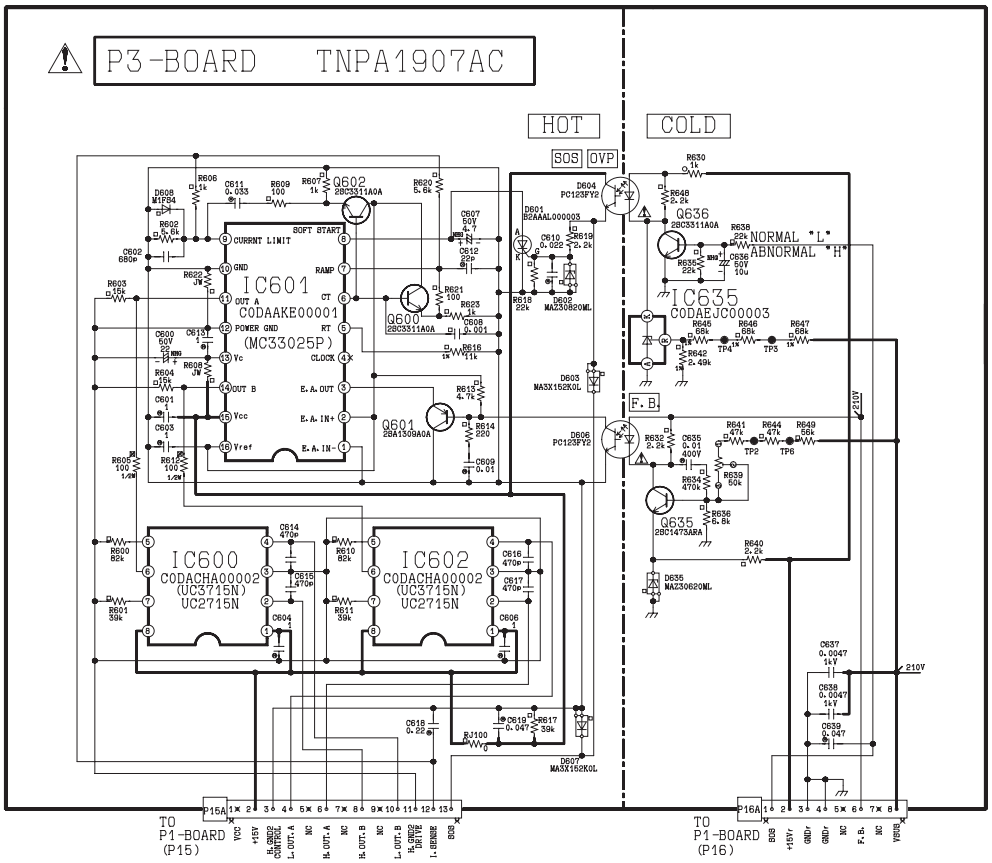
## 13.4. P1-Board Schematic Diagram

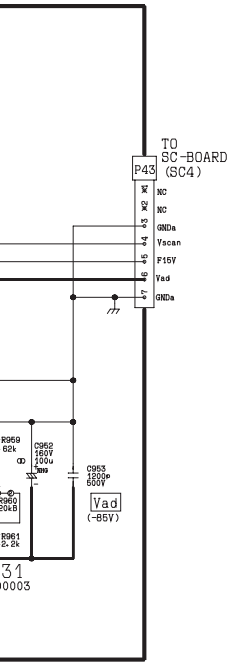


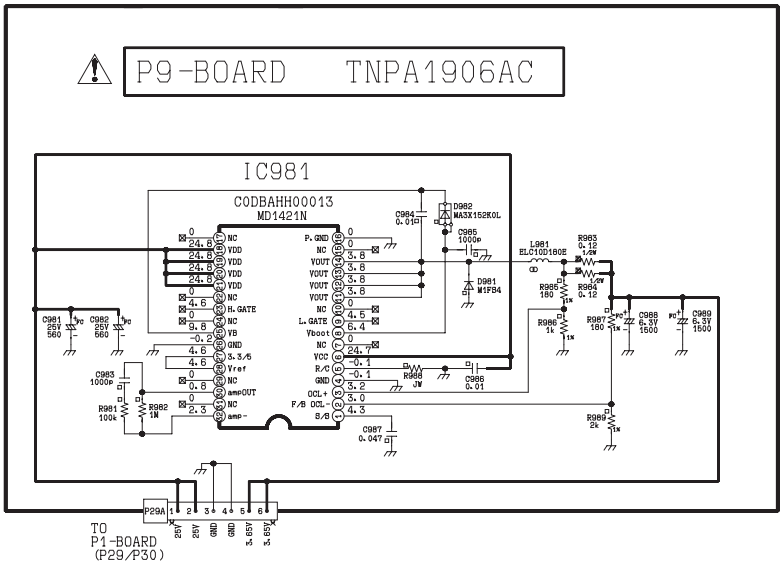

TO P7-BOARD (P21A)
TO P3-BOARD (P16A)
TO SC-BOARD (SC1)
TO SS-BOARD (SS1)
TO C7-BOARD (C72)
TO SS-BOARD (SS27)
IC407 C0DAAHH00013
IC412 C0DAAKH00004
IC411 C0DAEZH00008
IC410 C0DAEJC00005
IC406 C0DAEJC00003
IC403 UPC2260V
Vbk-DET
Vbk
Vda
TO T12-BOARD (T6)
TO T12-BOARD (T17)
TO D-BOARD (D5)
TO P9-BOARD (P29A)
TO P9-BOARD (P29A)
TO D-BOARD (D7)
TO P8-BOARD (P22A)
TO SS-BOARD (SS8)
PFC ON "L"
PFC OFF "H"
COLD

## 13.5. F, P3, P4 and P9-Board Schematic Diagram

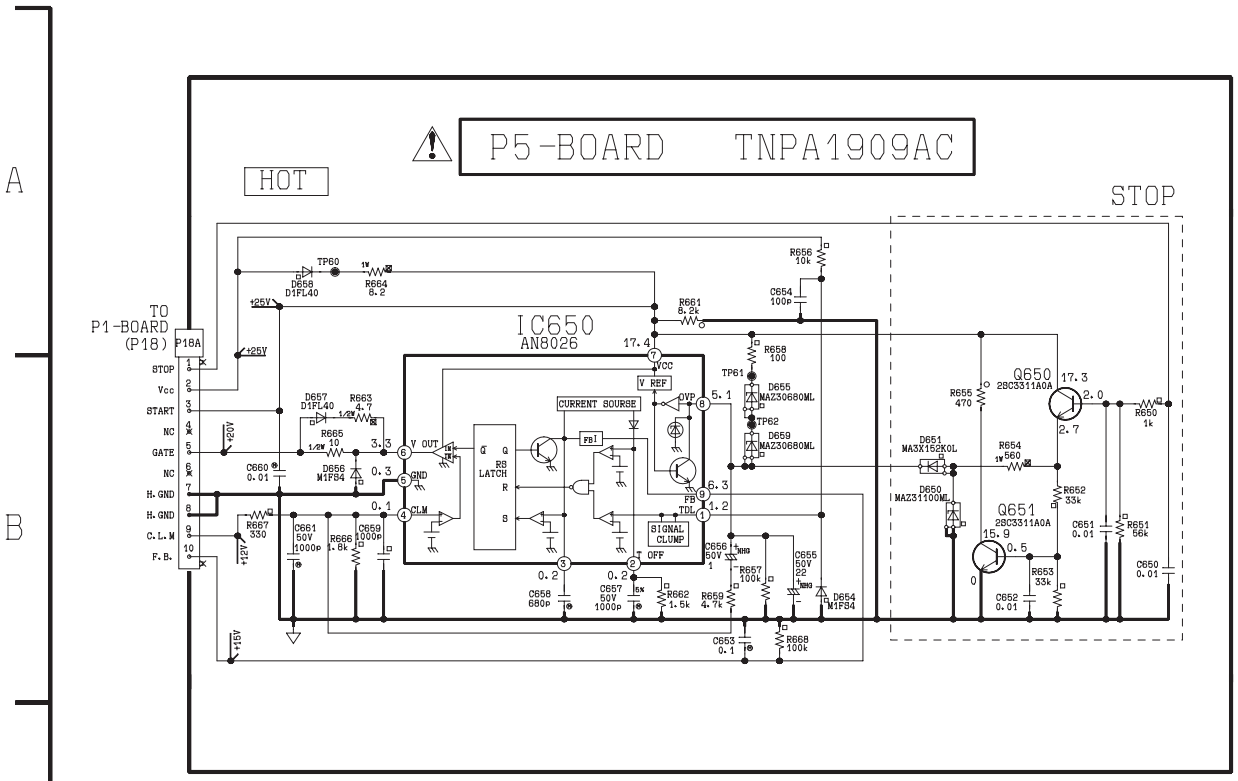


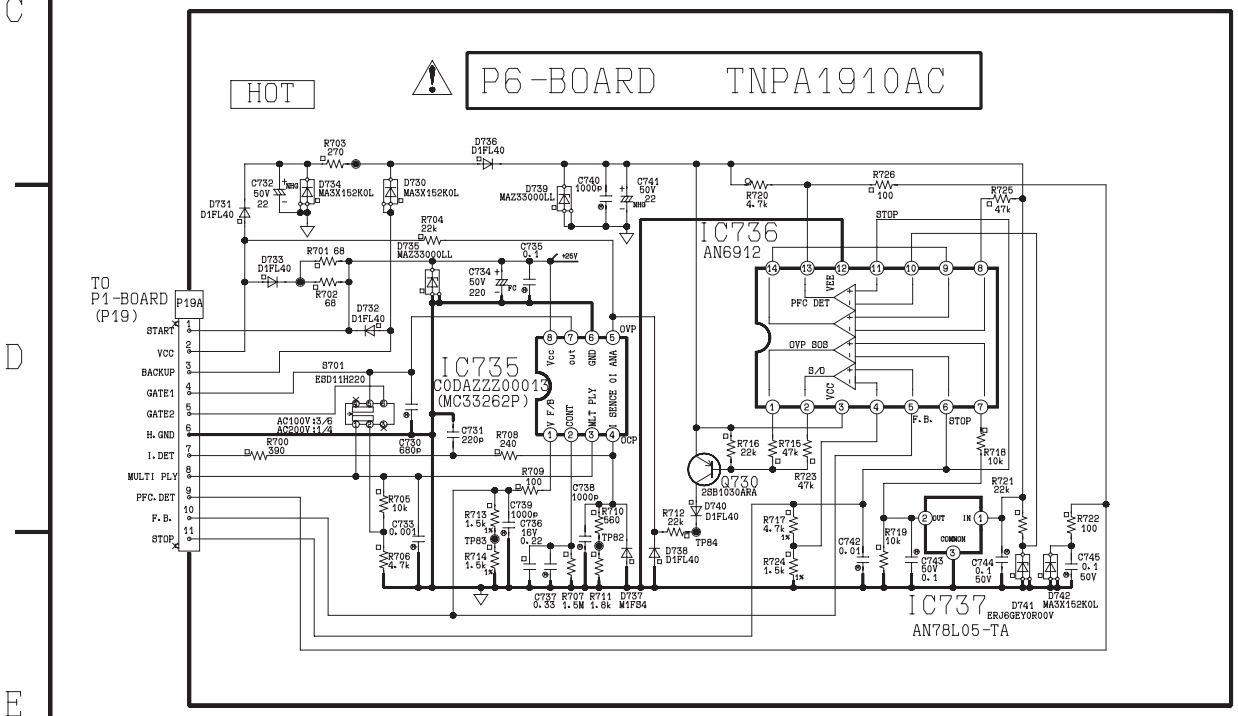

P3-BOARD TNPA1907AC
HOT
COLD
SOS
OVP
F.B
IC601
C0DAAKE00001
(MC33025P)
IC600
C0DACHA00002
(UC3715N)
UC2715N
IC602
C0DACHA00002
(UC3715N)
UC2715N
IC635
C0DAEJC00003
Q600
Q601
Q602
Q635
Q636
NORMAL "L"
ABNORMAL "H"
TO
P1-BOARD
(P15)
TO
P1-BOARD
(P16)

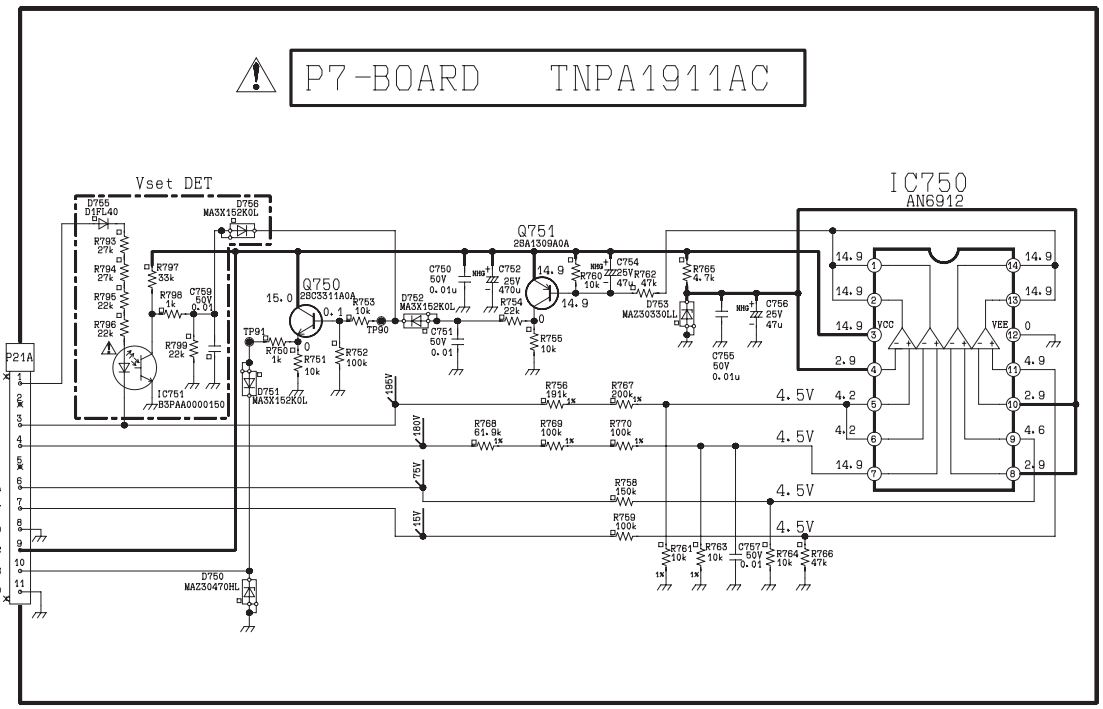

TO
SC-BOARD
(SC4)
P43
Vad
(-85V)

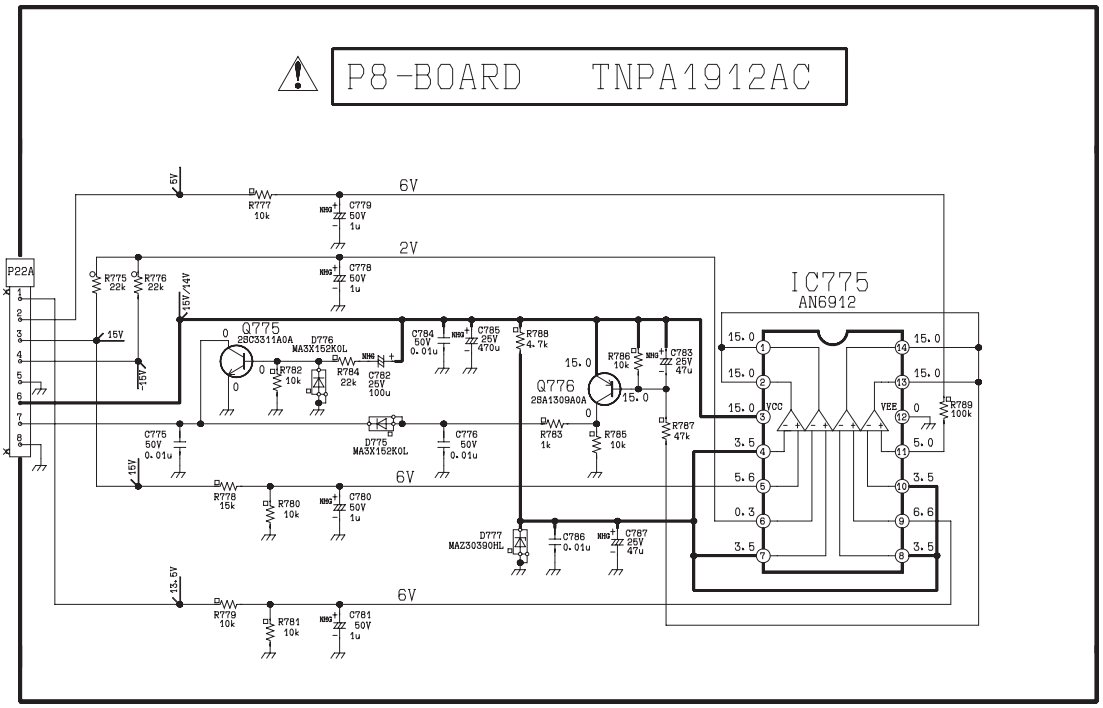

P9-BOARD TNPA1906AC
IC981
C0DBAHH00013
MD1421N
TO
P1-BOARD
(P29/P30)

## 13.6. P5, P6, P7 and P8-Board Schematic Diagram



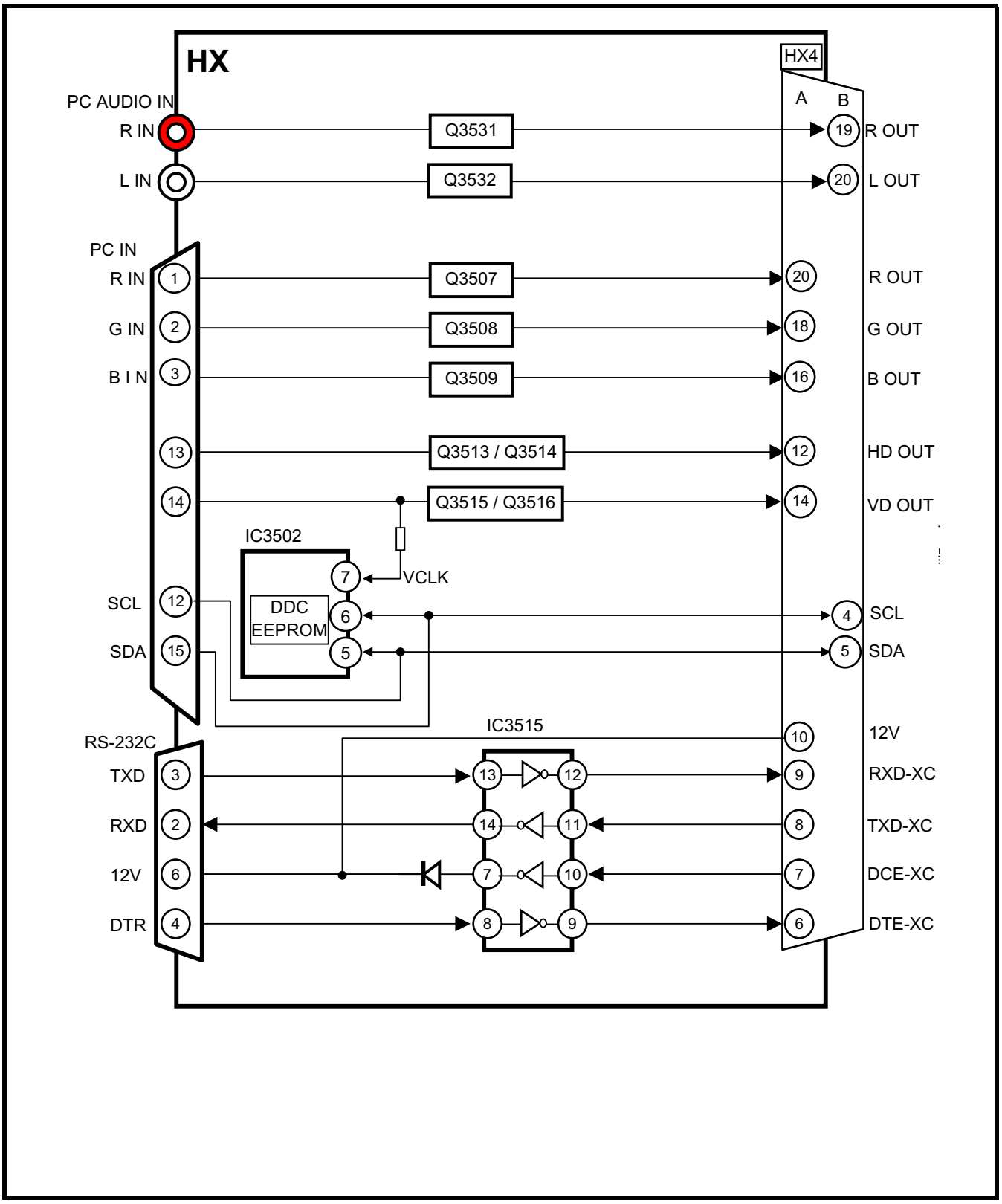




P7-BOARD TNPA1911AC
Vset DET
IC750
AN6912
Q750
2SC3311A0A
Q751
2SA1309A0A
IC751
B3PAA0000150
D750
MAZ30470HL
D751
MA3X152K0L
D752
MA3X152K0L
D753
MAZ30330LL
D755
D1FL40
D756
MA3X152K0L
VSET
NC
VSUB
Vbk
NC
VDA
15V
GND
VCC
SOS
GND
4.5V
4.2
2.9
4.6
14.9
VCC
VEE

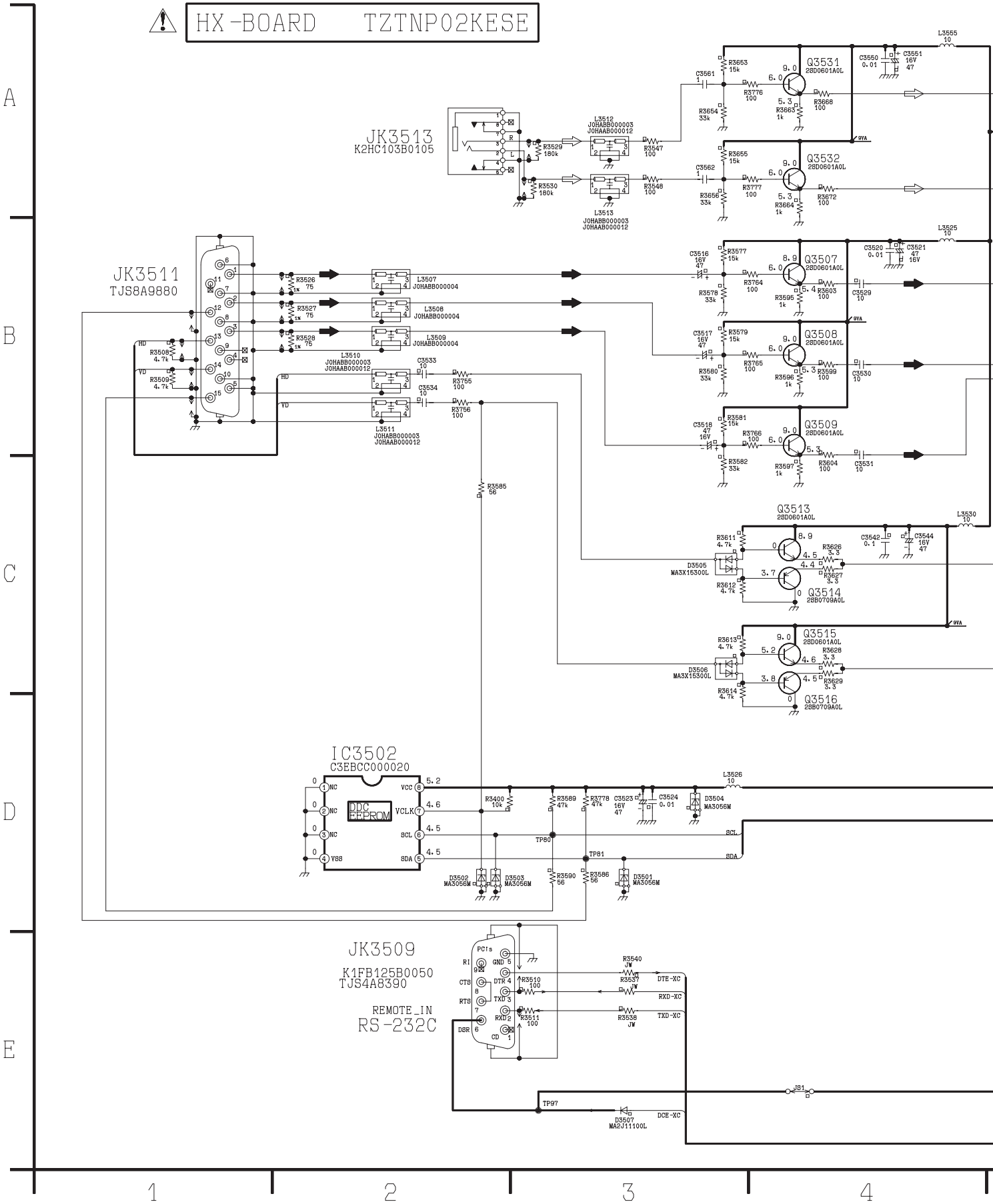

P8-BOARD TNPA1912AC
IC775
AN6912
Q775
2SC3311A0A
Q776
2SA1309A0A
D775
MA3X152K0L
D776
MA3X152K0L
D777
MAZ30390HL
6V
2V
15V
-15V
13.5V
5V
AUDIO 15V
AUDIO-15V
GND
VCC
SOS
GND
VCC
VEE

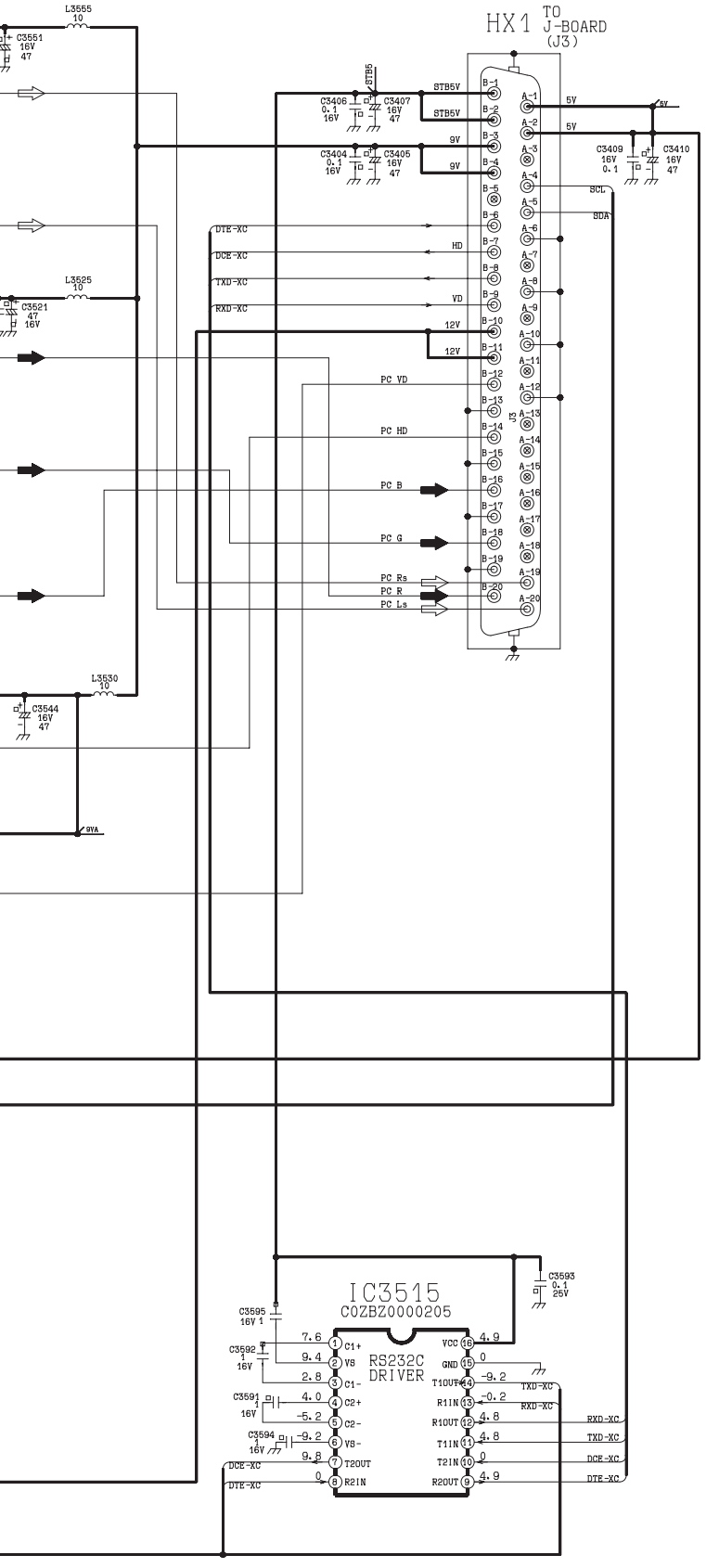
## 13.7. HX-Board Block Diagram

**PC Terminal Board**

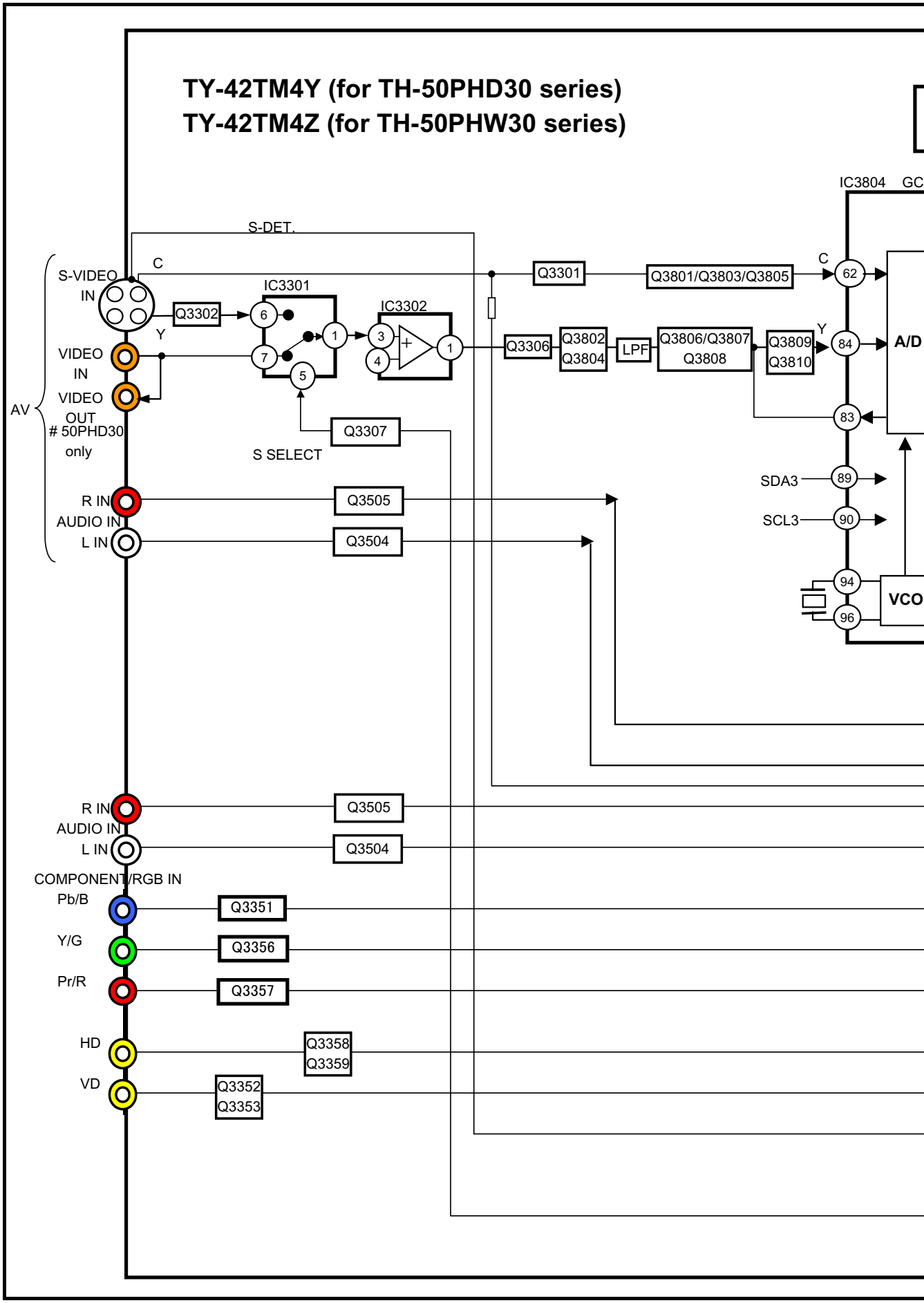


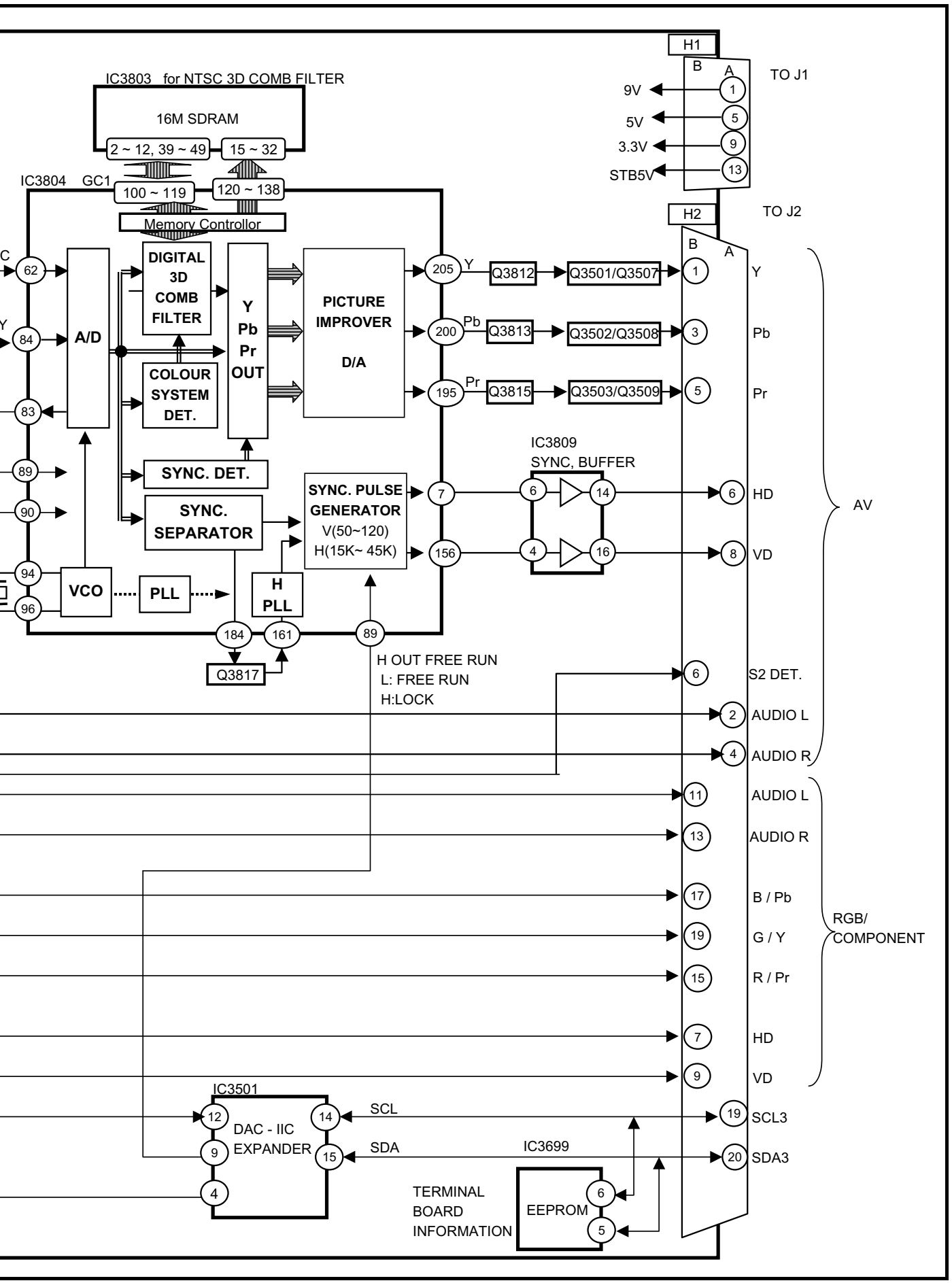
## 13.8. HX-Board Schematic Diagram



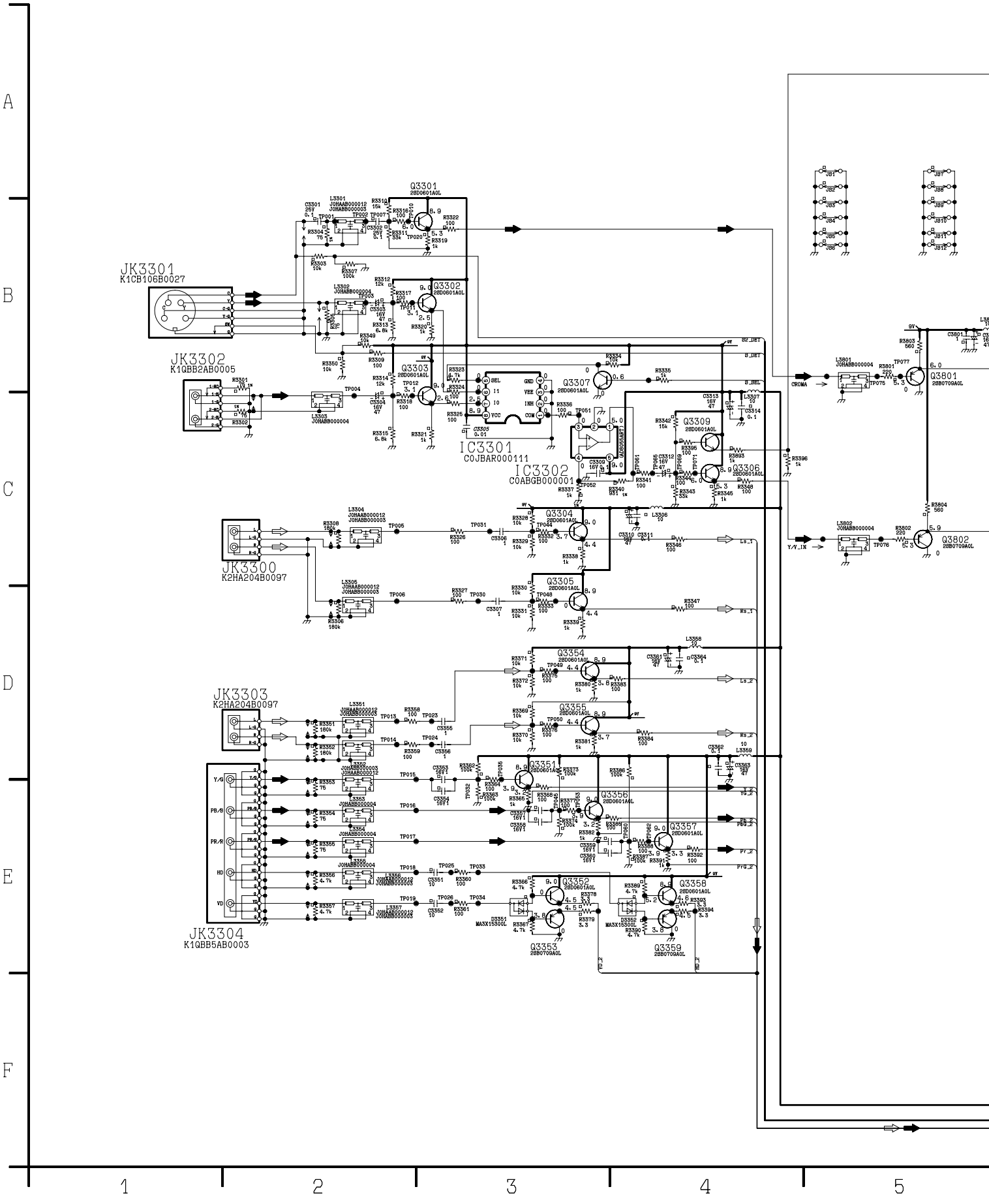

HX1 TO J-BOARD (J3)
L3555
10
C3551
16V
47
C3406
0.1
16V
C3407
16V
47
C3404
0.1
16V
C3405
16V
47
C3409
16V
0.1
C3410
16V
47
STB5V
9V
5V
SCL
SDA
DTE-XC
DCE-XC
TXD-XC
RXD-XC
HD
VD
12V
PC VD
PC HD
PC B
PC G
PC Rs
PC R
PC Ls
J3
L3625
10
C3521
47
16V
L3630
10
C3544
16V
47
9VA
IC3515
C0ZBZ0000205
RS232C
DRIVER
C1+
VS
C1-
C2+
C2-
VS-
T2OUT
R2IN
VCC
GND
T1OUT
R1IN
R1OUT
T1IN
T2IN
R2OUT
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C3595
16V
C3592
16V
C3591
16V
C3594
16V

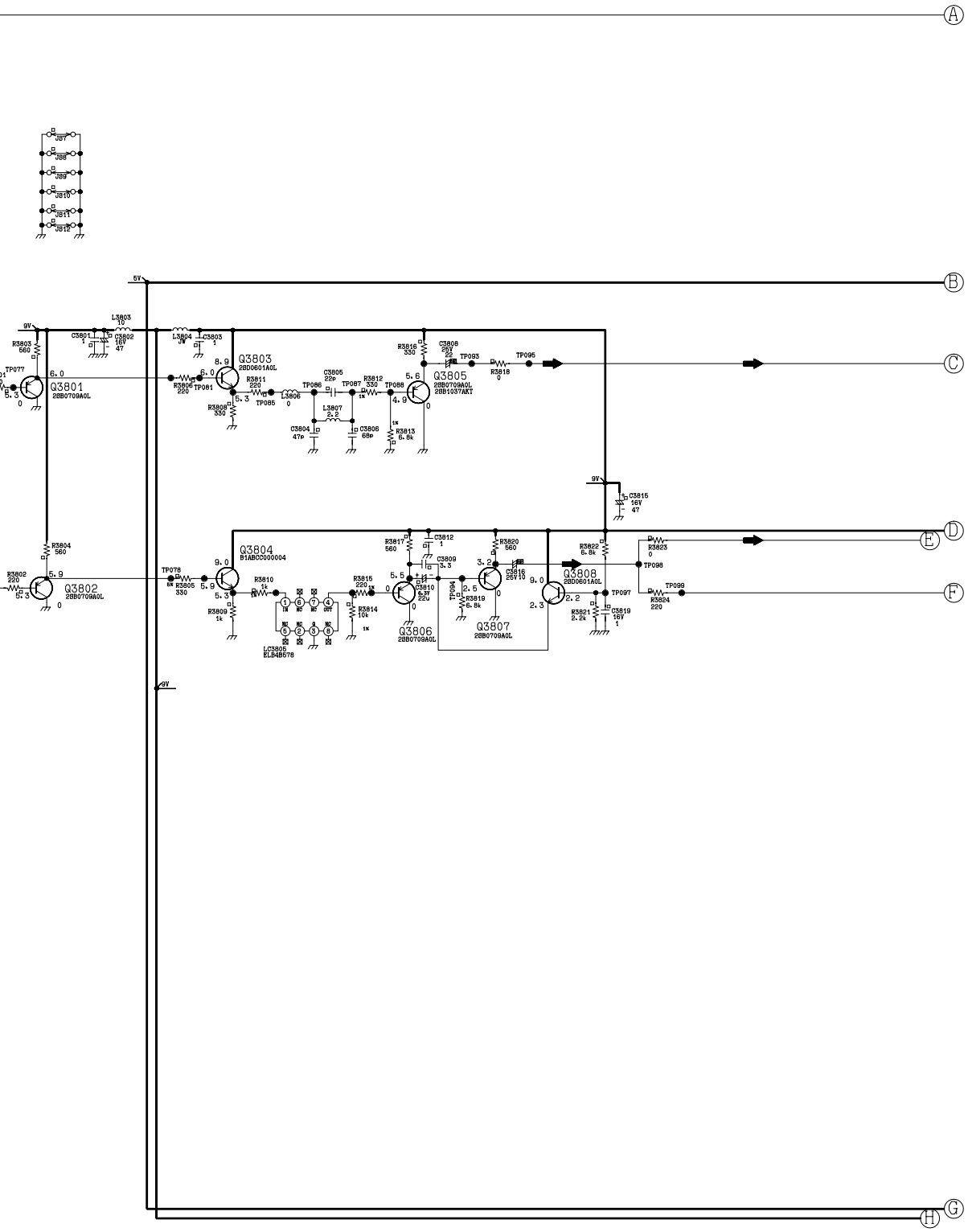
## 13.9. Option TY-42TM4Y and TY-42TM4Z Block Diagrams



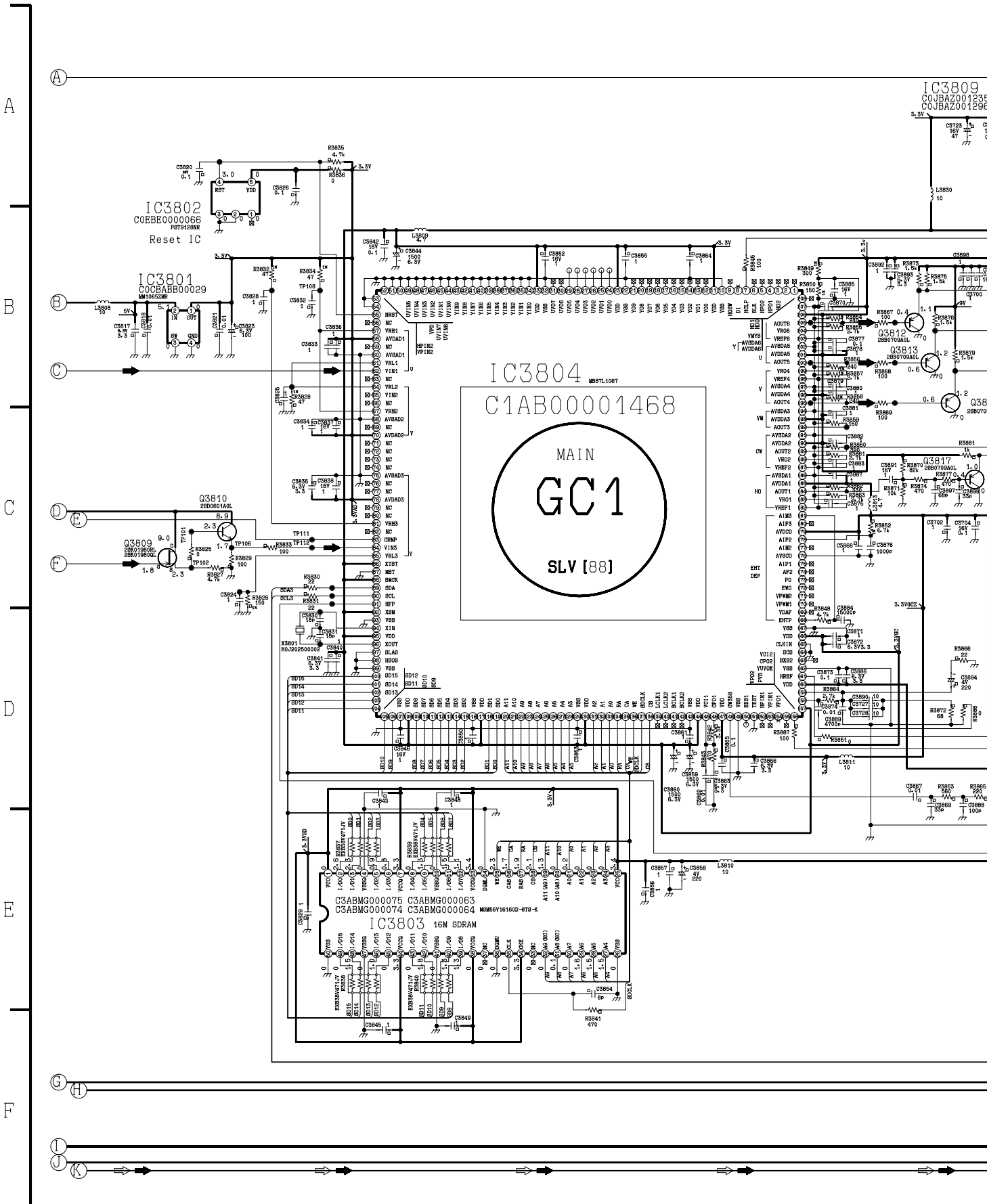

IC3803 for NTSC 3D COMB FILTER
16M SDRAM
2 ~ 12, 39 ~ 49
15 ~ 32
IC3804 GC1
100 ~ 119
120 ~ 138
Memory Controllor
A/D
DIGITAL 3D COMB FILTER
COLOUR SYSTEM DET.
Y Pb Pr OUT
PICTURE IMPROVER D/A
SYNC. DET.
SYNC. SEPARATOR
SYNC. PULSE GENERATOR V(50~120) H(15K~ 45K)
VCO
PLL
H PLL
Q3817
H1
H2
TO J1
TO J2
9V
5V
3.3V
STB5V
Y
Pb
Pr
Q3812
Q3813
Q3815
Q3501/Q3507
Q3502/Q3508
Q3503/Q3509
IC3809
SYNC, BUFFER
HD
VD
AV
H OUT FREE RUN
L: FREE RUN
H:LOCK
S2 DET.
AUDIO L
AUDIO R
B / Pb
G / Y
R / Pr
RGB/
COMPONENT
IC3501
DAC - IIC
EXPANDER
SCL
SDA
SCL3
SDA3
IC3699
TERMINAL
BOARD
INFORMATION
EEPROM

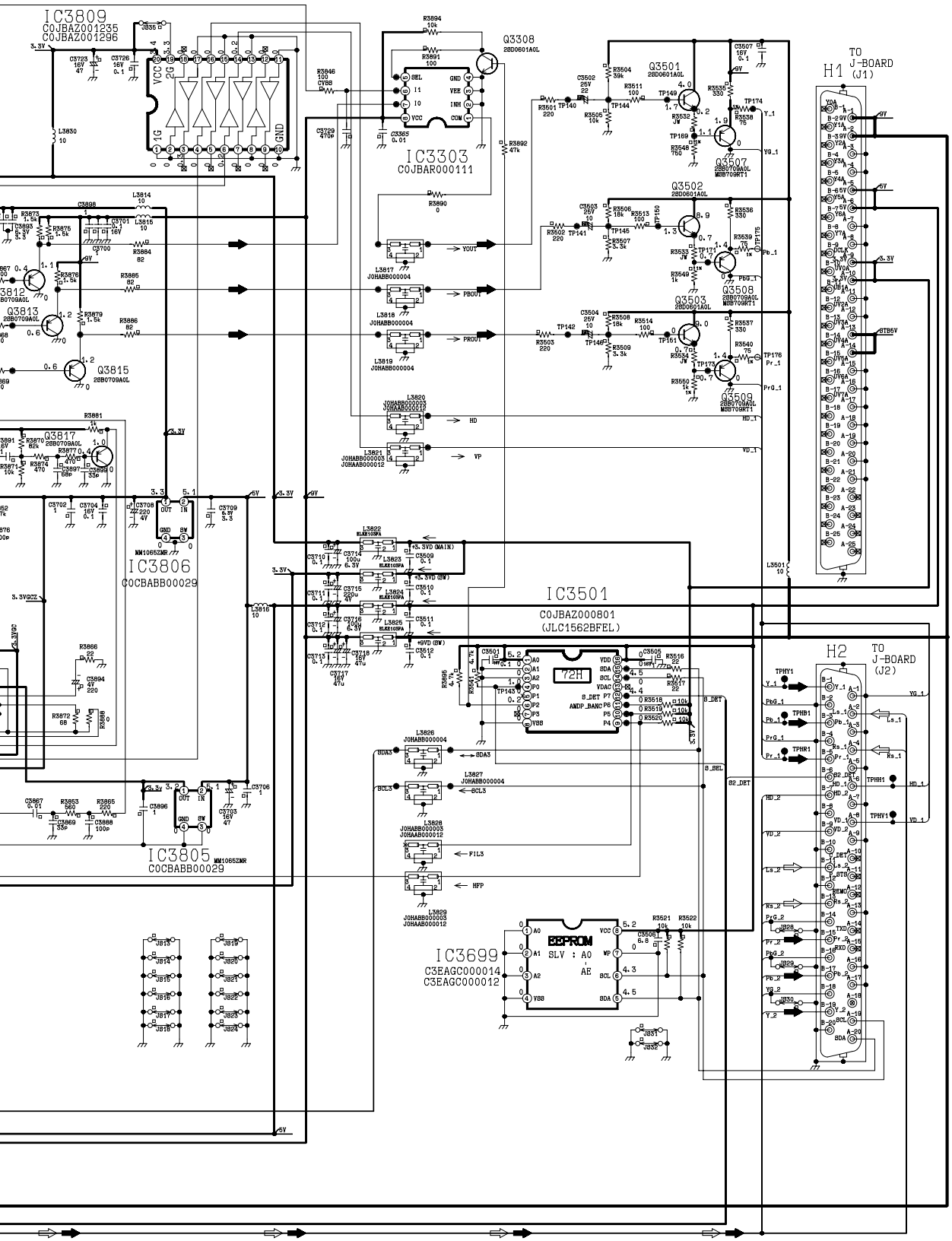
# 13.10. Option TY-42TM4Y (1 of 2) Schematic Diagrams



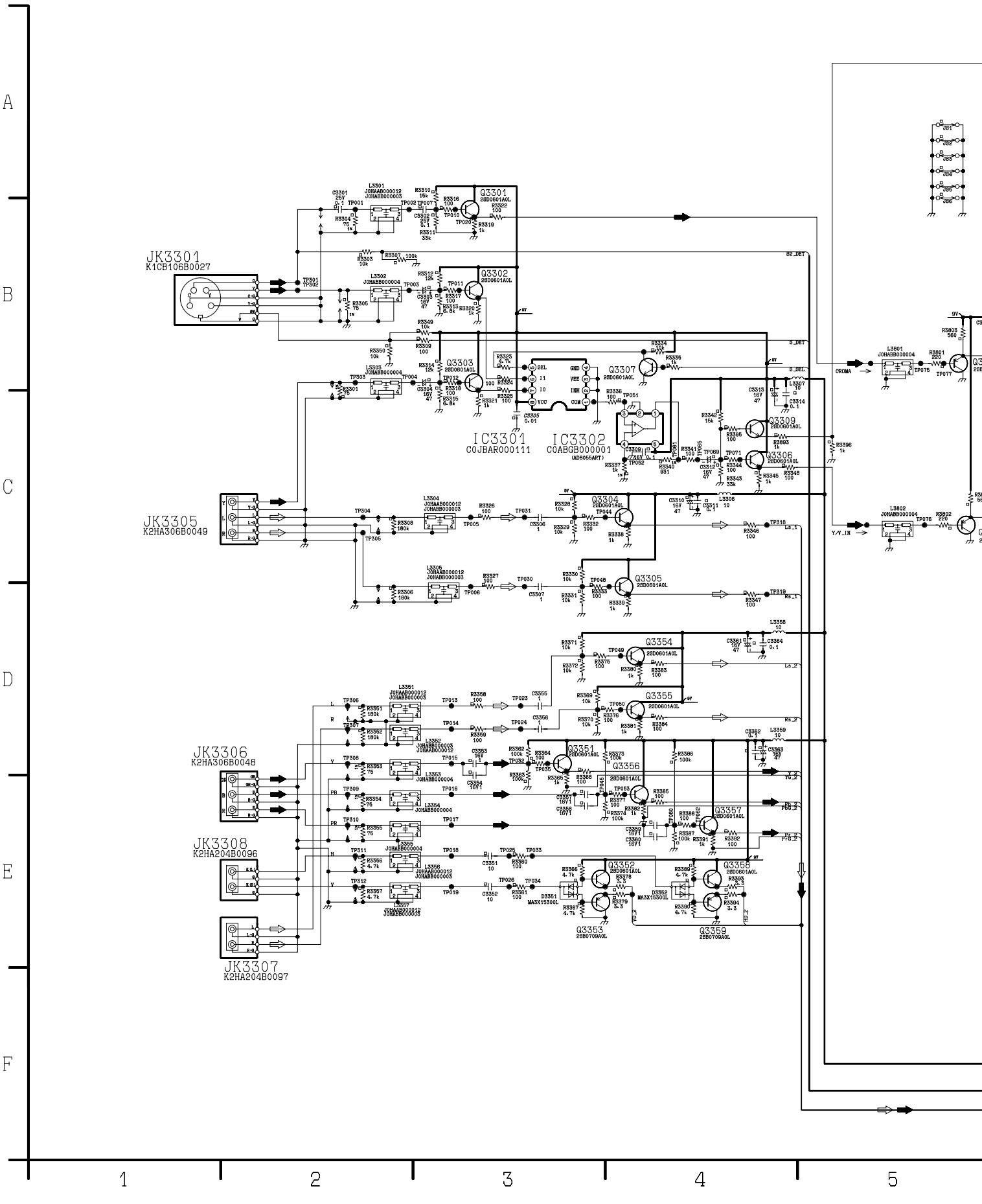

A
B
C
D
E
F
G
H
I
J
K
5V
9V
Q3801
2SB0709A0L
Q3802
2SB0709A0L
Q3803
2SD0601A0L
Q3804
B1ABC0000004
Q3805
2SB0709A0L
2SB1037AKT
Q3806
2SB0709A0L
Q3807
2SB0709A0L
Q3808
2SD0601A0L
TP077
TP078
TP081
TP085
TP086
TP087
TP088
TP093
TP094
TP095
TP096
TP097
TP098
TP099
LC3805
ELS4B678

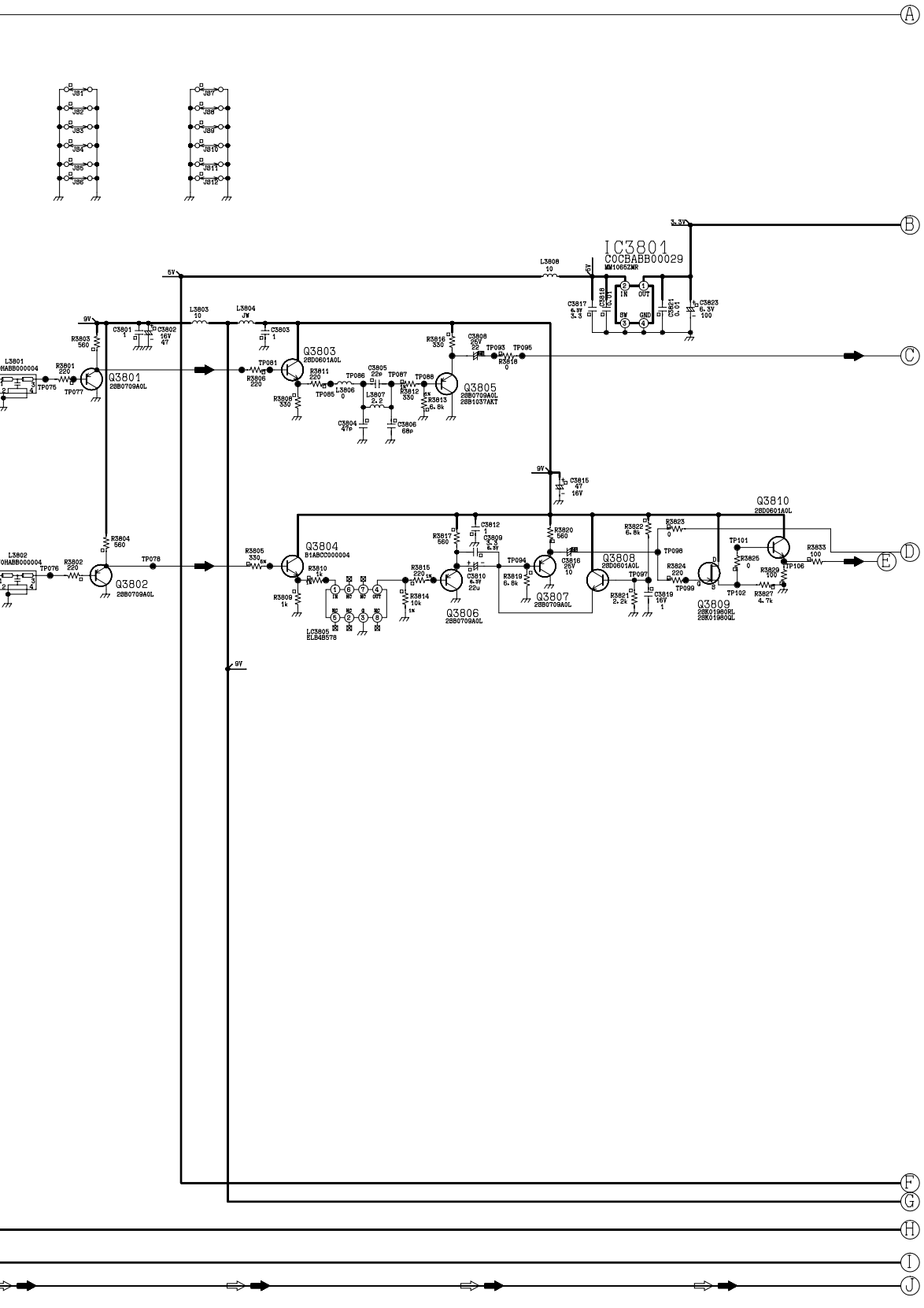
# 13.11. Option TY-42TM4Y (2 of 2) Schematic Diagrams



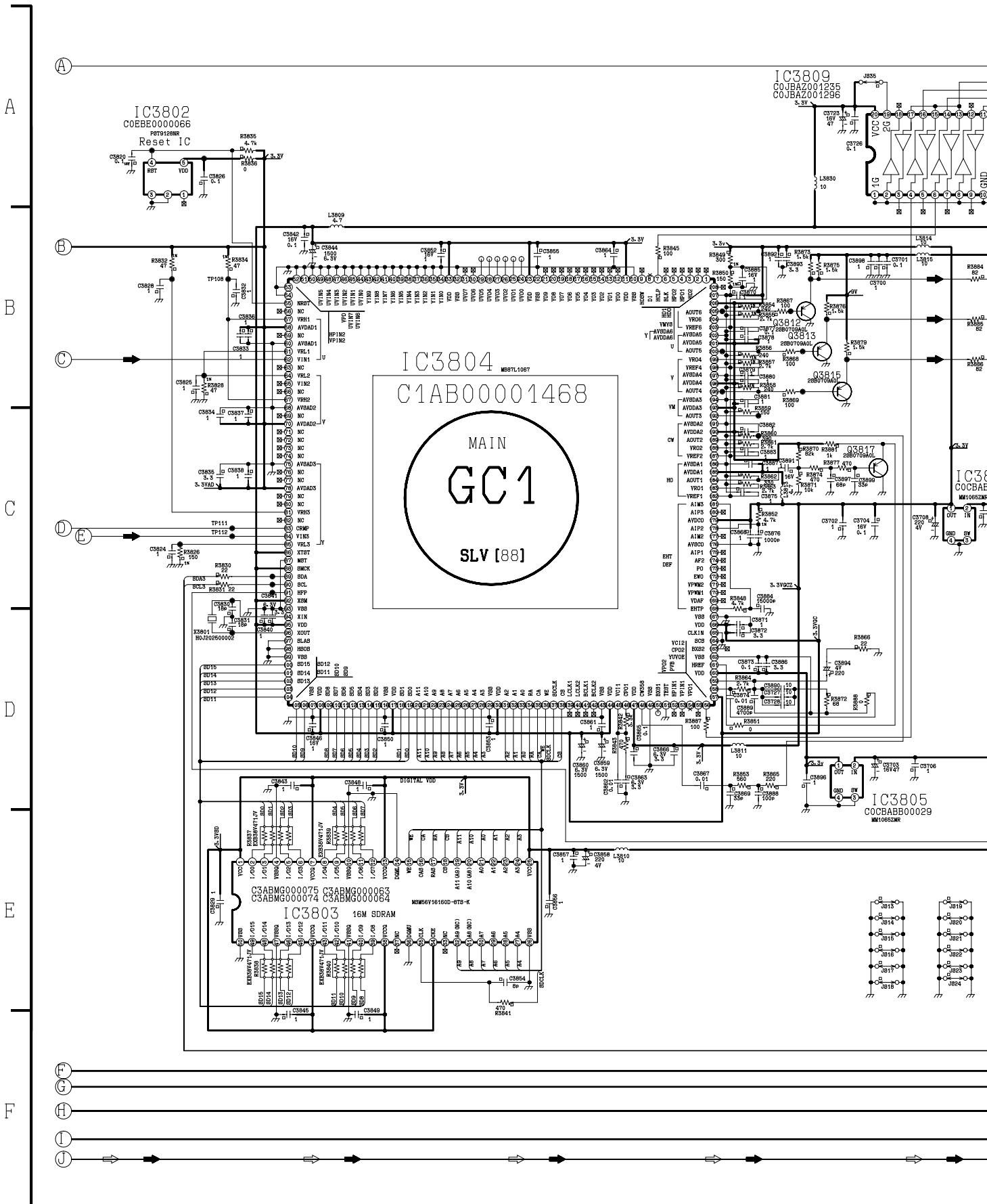

IC3809
C0JBAZ001235
C0JBAZ001296
IC3303
C0JBAR000111
IC3806
C0CBABB00029
IC3805
C0CBABB00029
IC3501
C0JBAZ000801
(JLC1562BFEL)
IC3699
C3EAGC000014
C3EAGC000012
EEPROM
SLV : A0
AE
Q3308
2SD0601A0L
Q3501
2SD0601A0L
Q3502
2SD0601A0L
Q3503
2SB0709A0L
Q3507
2SB0709A0L
Q3508
2SB0709A0L
Q3509
2SB0709A0L
Q3813
2SB0709A0L
Q3815
2SB0709A0L
Q3817
2SB0709A0L
TO
J-BOARD
H1 (J1)
H2
TO
J-BOARD
(J2)
YOUT
PBOUT
PROUT
HD
VP
FIL3
HFP
SDA3
SCL3
S_DET
B2_DET

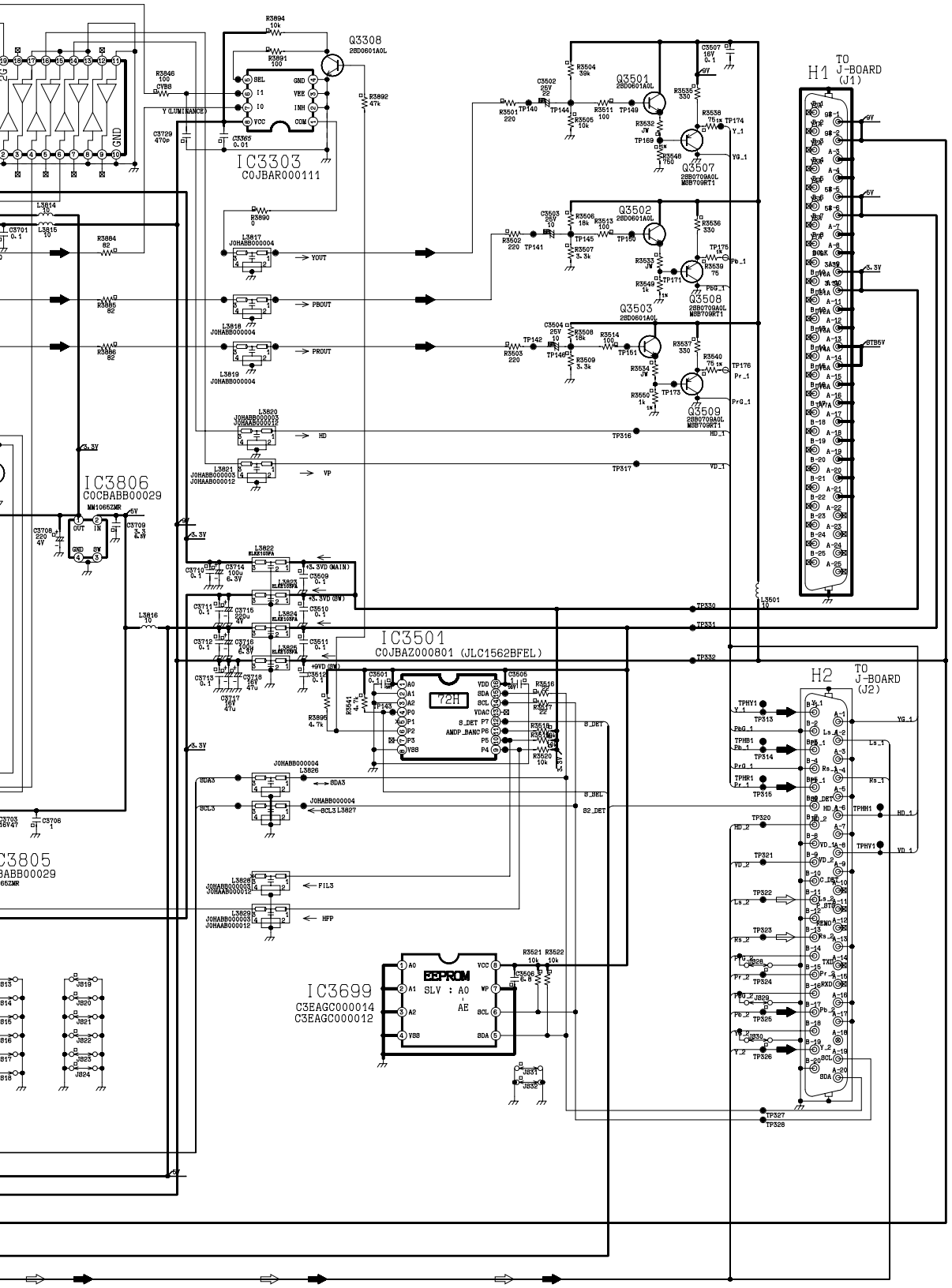
# 13.12. Option TY-42TM4Z (1 of 2) Schematic Diagram



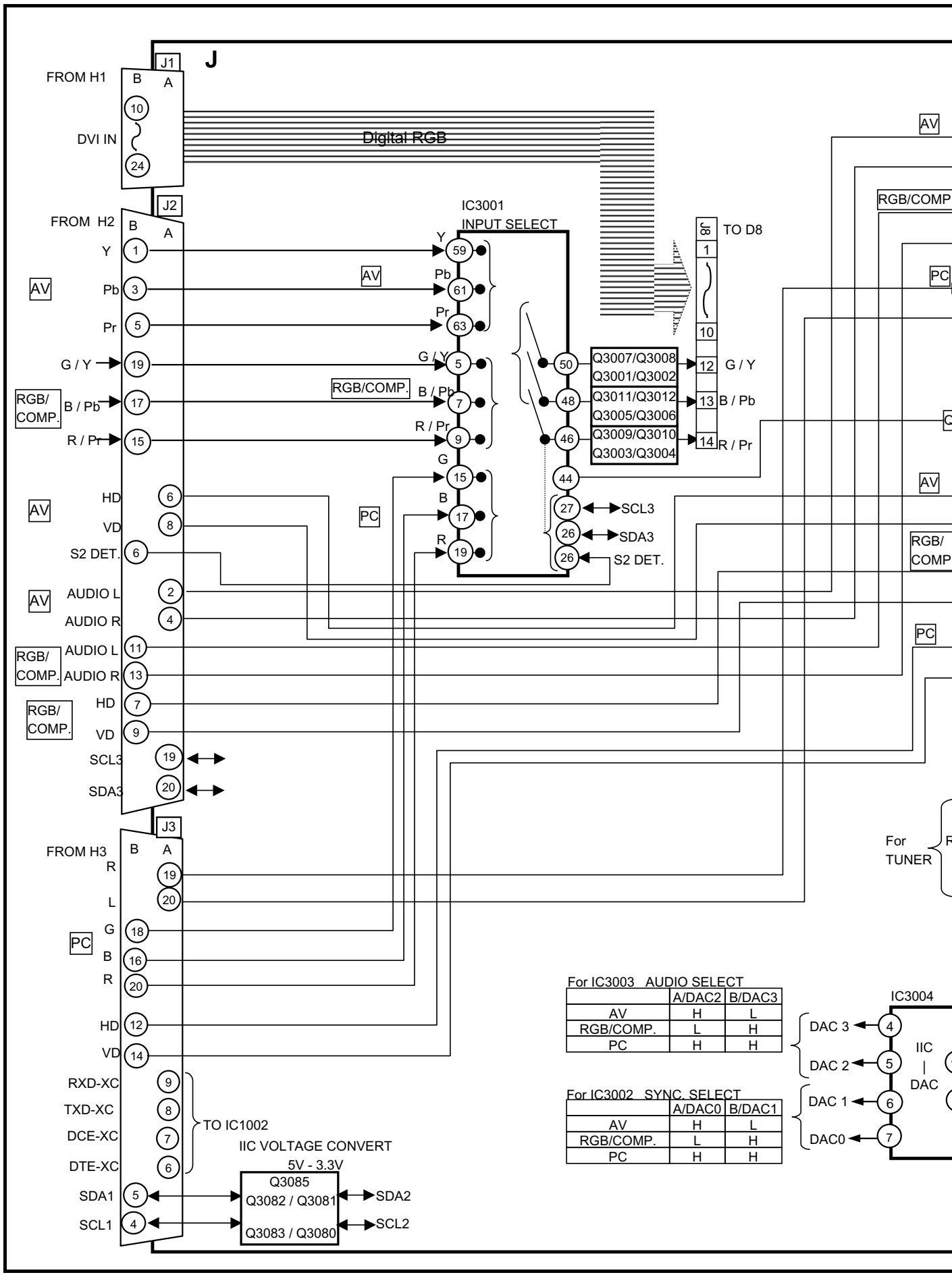

IC3801
C0CBABB00029
WM1065ZMR
Q3801
2SB0709A0L
Q3802
2SB0709A0L
Q3803
2SD0601A0L
Q3804
B1ABCC000004
Q3805
2SB0709A0L
2SB1037AKT
Q3806
2SB0709A0L
Q3807
2SB0709A0L
Q3808
2SD0601A0L
Q3809
2SK01980QL
2SK01980QL
Q3810
2SD0601A0L
LC3805
ELB4B578
9V
5V
3.3V
A
B
C
D
E
F
G
H
I
J
5
6
7
8
9

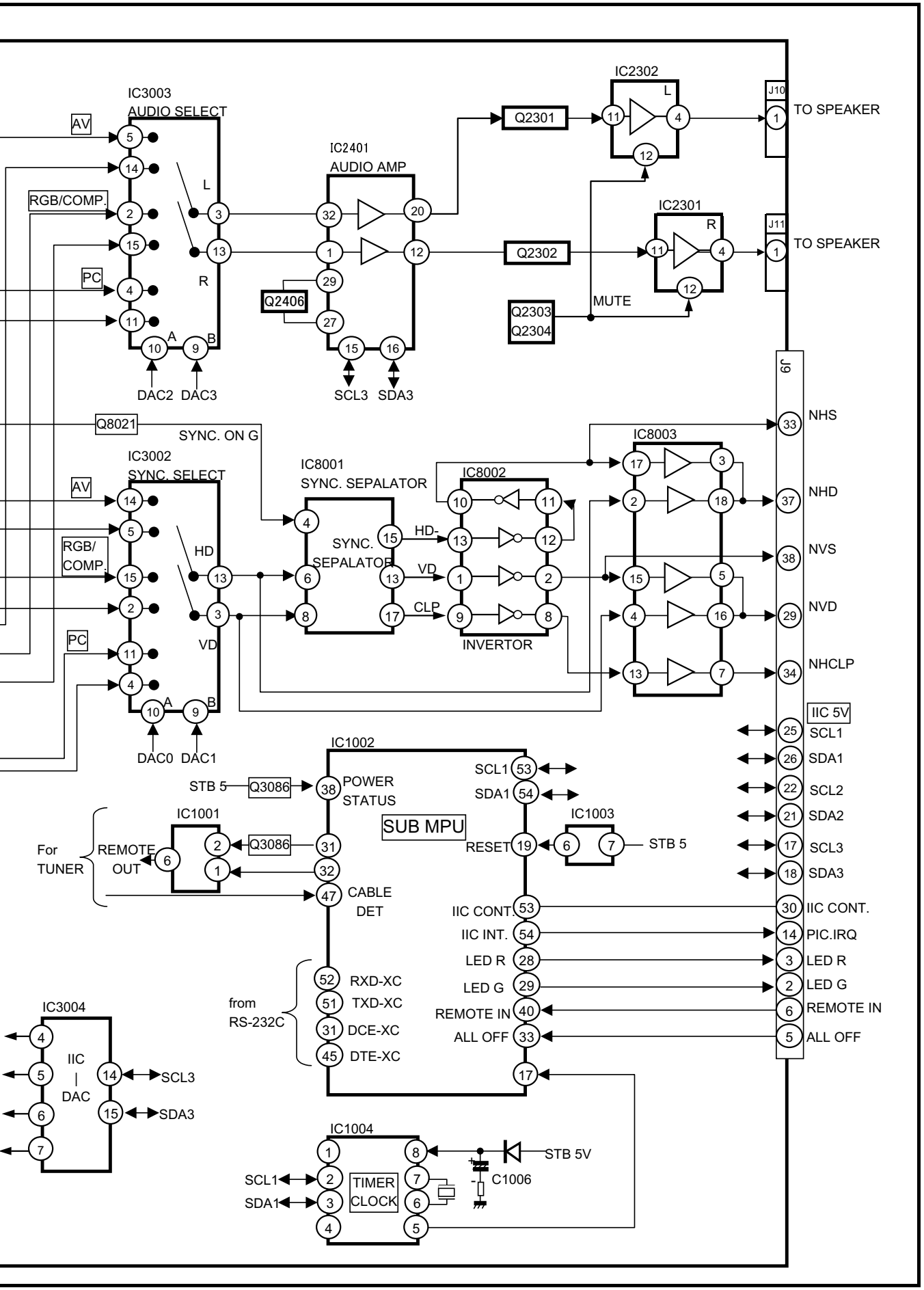
# 13.13. Option TY-42TM4Z (2 of 2) Schematic Diagram



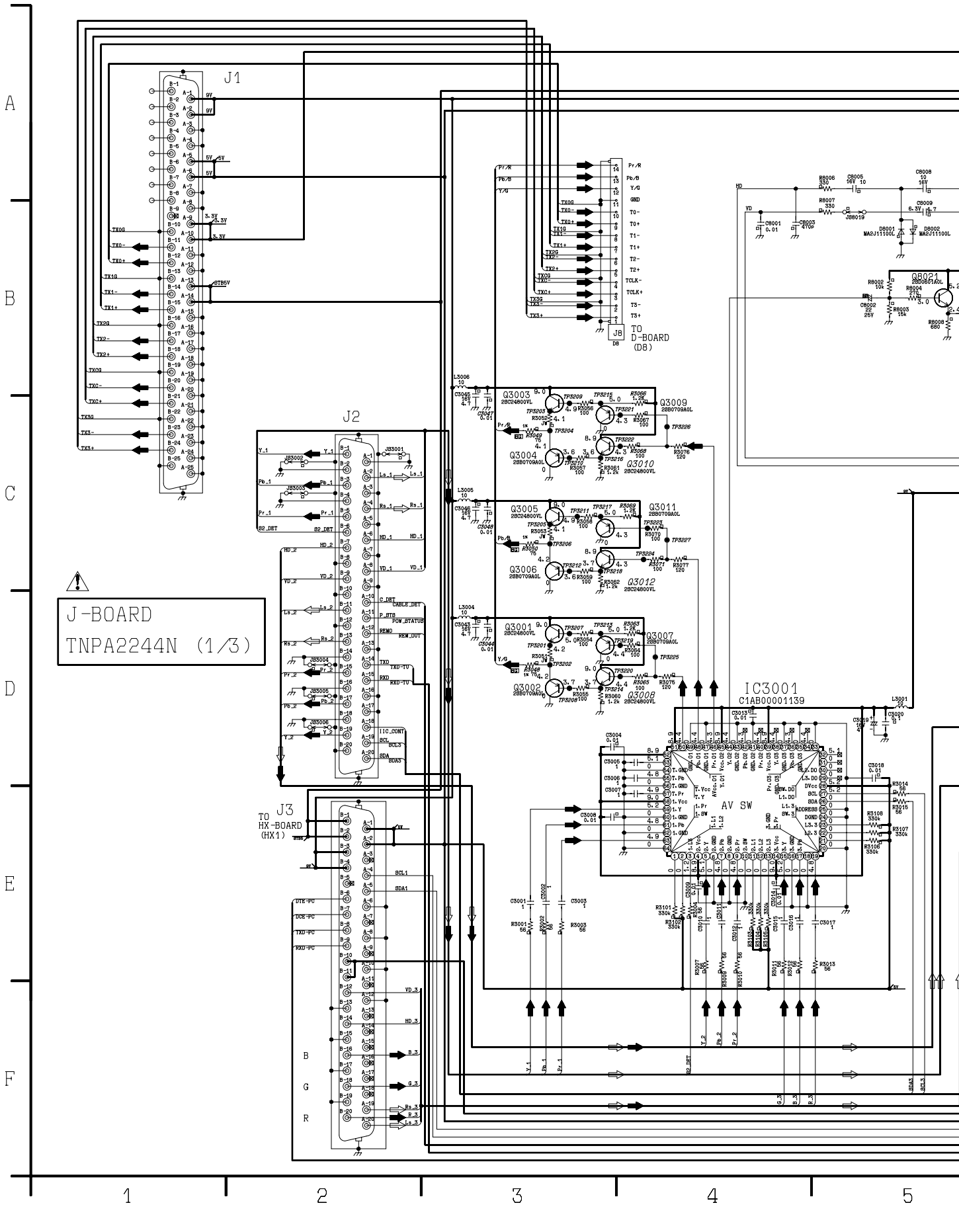

IC3303
C0JBAR000111
Q3308
2SD0601A0L
IC3806
C0CBABB00029
IC3501
C0JBAZ000801 (JLC1562BFEL)
IC3699
C3EAGC000014
C3EAGC000012
EEPROM
H1
TO
J-BOARD
(J1)
H2
TO
J-BOARD
(J2)
Q3501
Q3502
Q3503
Q3507
Q3508
Q3509
YOUT
PBOUT
PROUT
HD
VP
FIL3
HFP
SDA3
SCL3

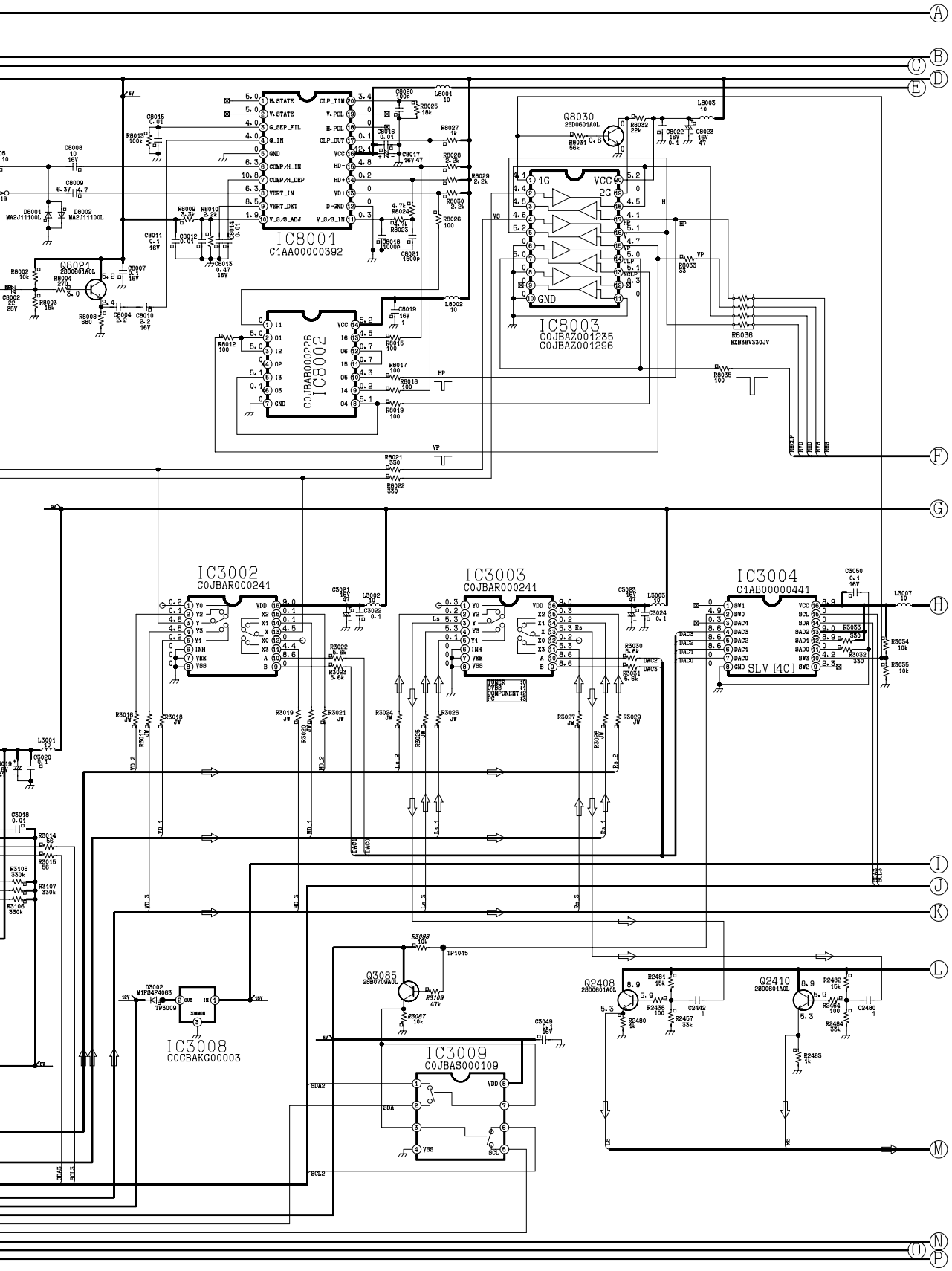
## 13.14. J-Board Block Diagram




IC3003
AUDIO SELECT
AV
RGB/COMP.
PC
L
R
A
B
DAC2
DAC3
IC2401
AUDIO AMP
Q2406
SCL3
SDA3
Q2301
Q2302
Q2303
Q2304
MUTE
IC2302
IC2301
J10
J11
TO SPEAKER
J9
Q8021
SYNC. ON G
IC3002
SYNC. SELECT
HD
VD
DAC0
DAC1
IC8001
SYNC. SEPALATOR
SYNC. SEPALATOR
HD-
VD
CLP
IC8002
INVERTOR
IC8003
NHS
NHD
NVS
NVD
NHCLP
IIC 5V
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
IC1002
SUB MPU
STB 5
Q3086
POWER STATUS
IC1001
For TUNER
REMOTE OUT
CABLE DET
RESET
IC1003
IIC CONT.
IIC INT.
LED R
LED G
REMOTE IN
ALL OFF
from RS-232C
RXD-XC
TXD-XC
DCE-XC
DTE-XC
IC3004
IIC
DAC
IC1004
TIMER CLOCK
STB 5V
C1006

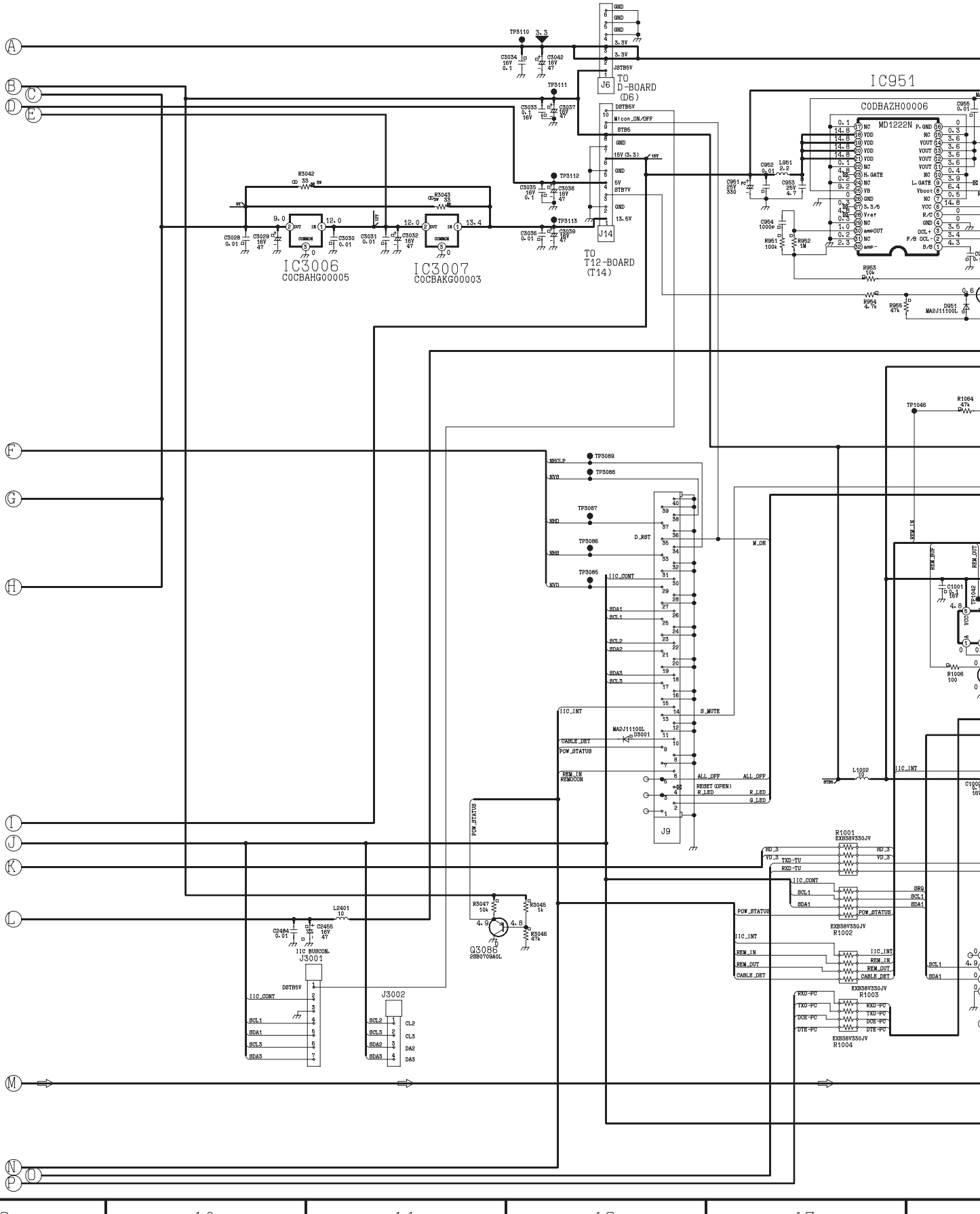
## 13.15. J-Board (1 of 3) Schematic Diagram

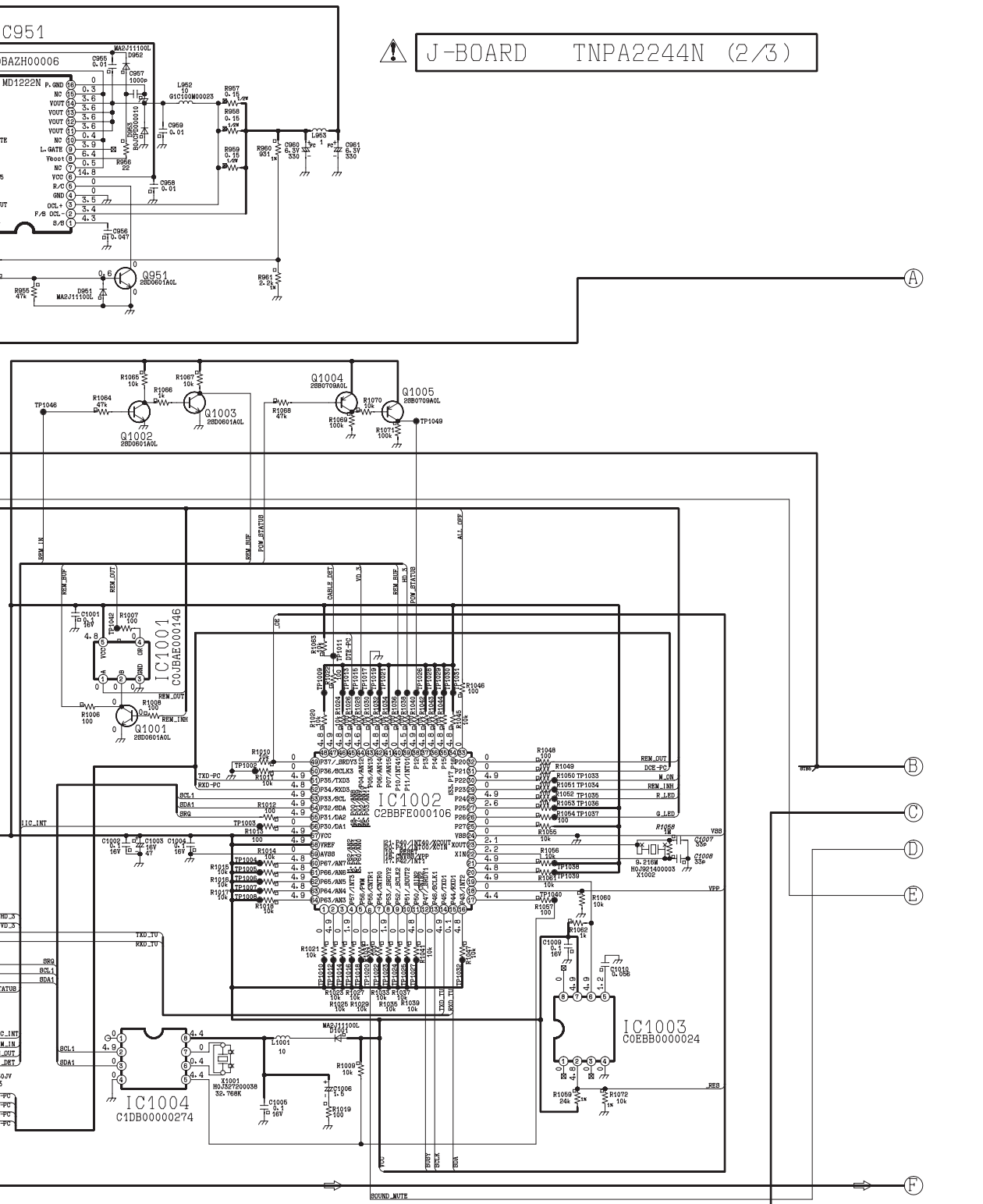



IC8001
C1AA00000392
IC8002
C0JBAB000226
IC8003
C0JBAZ001235
C0JBAZ001296
Q8030
2SD0601A0L
Q8021
2SD0601A0L
IC3002
C0JBAR000241
IC3003
C0JBAR000241
IC3004
C1AB00000441
SLV [4C]
IC3008
C0CBAKG00003
IC3009
C0JBAS000109
Q3085
2SB0709A0D
Q2408
2SD0601A0L
Q2410
2SD0601A0L
TP1045
TP3009
D3002
M1FS4F4063
R8036
EXB36V330JV
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

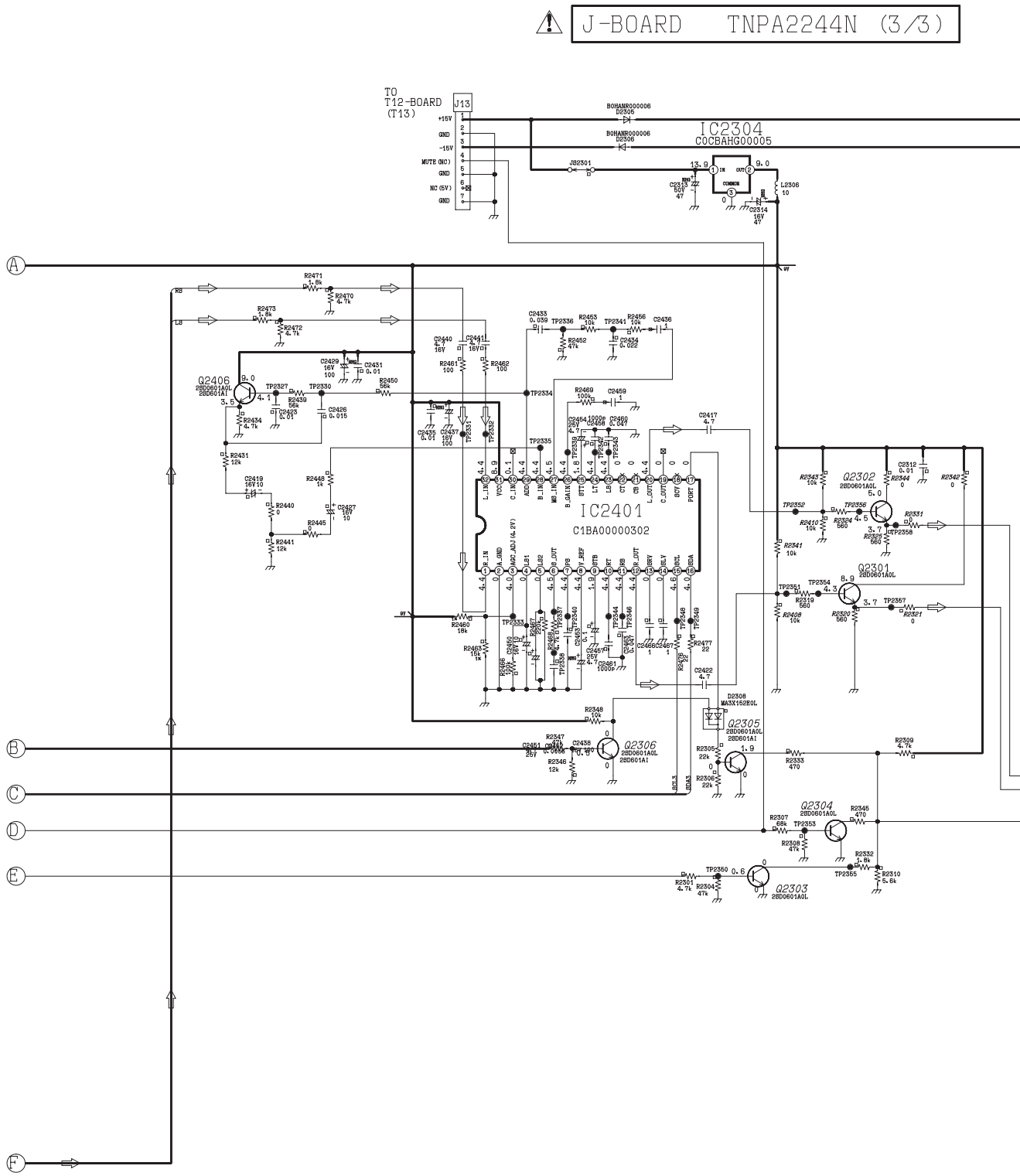
5 6 7 8 9

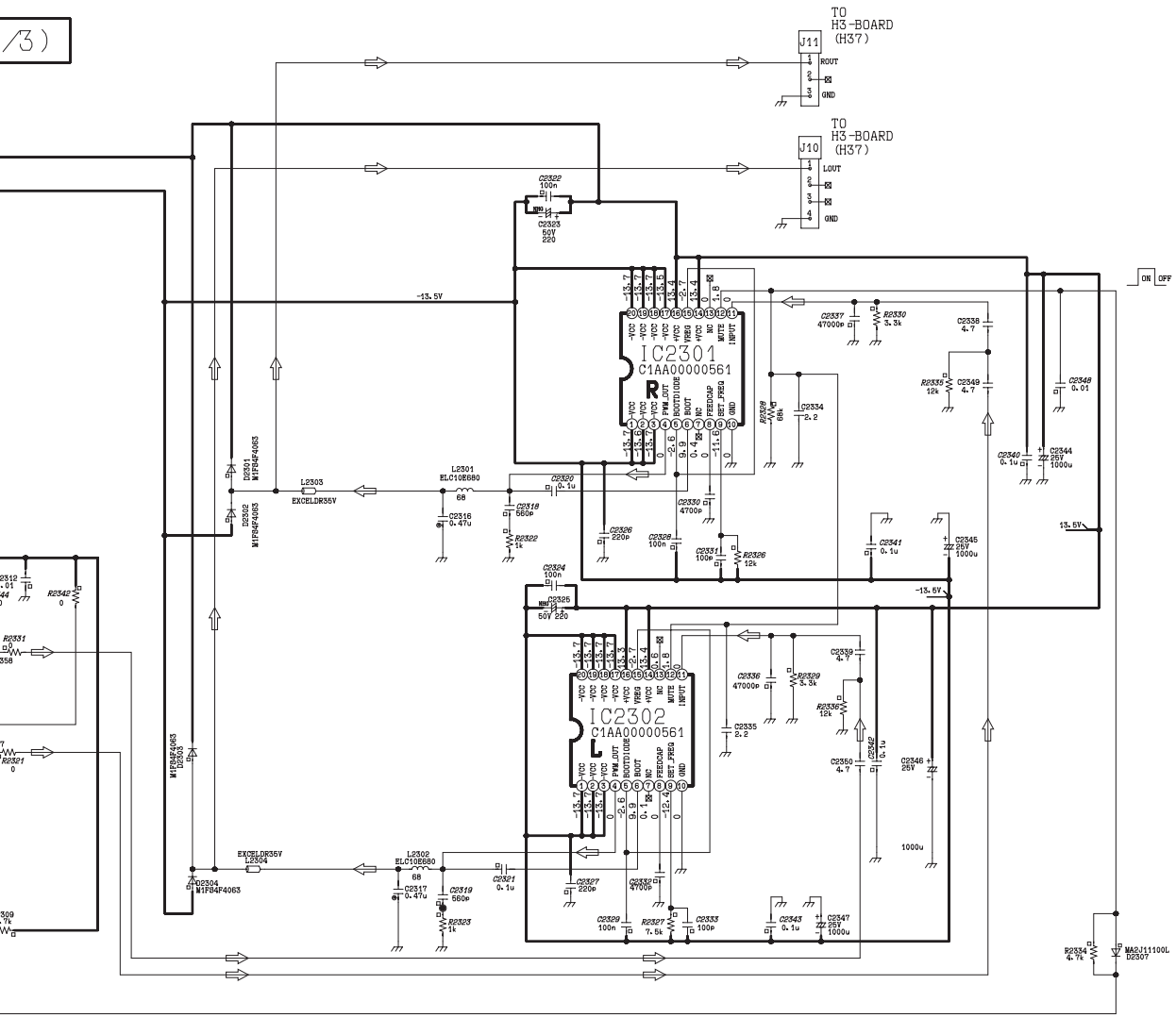
# 13.16. J-Board (2 of 3) Schematic Diagram



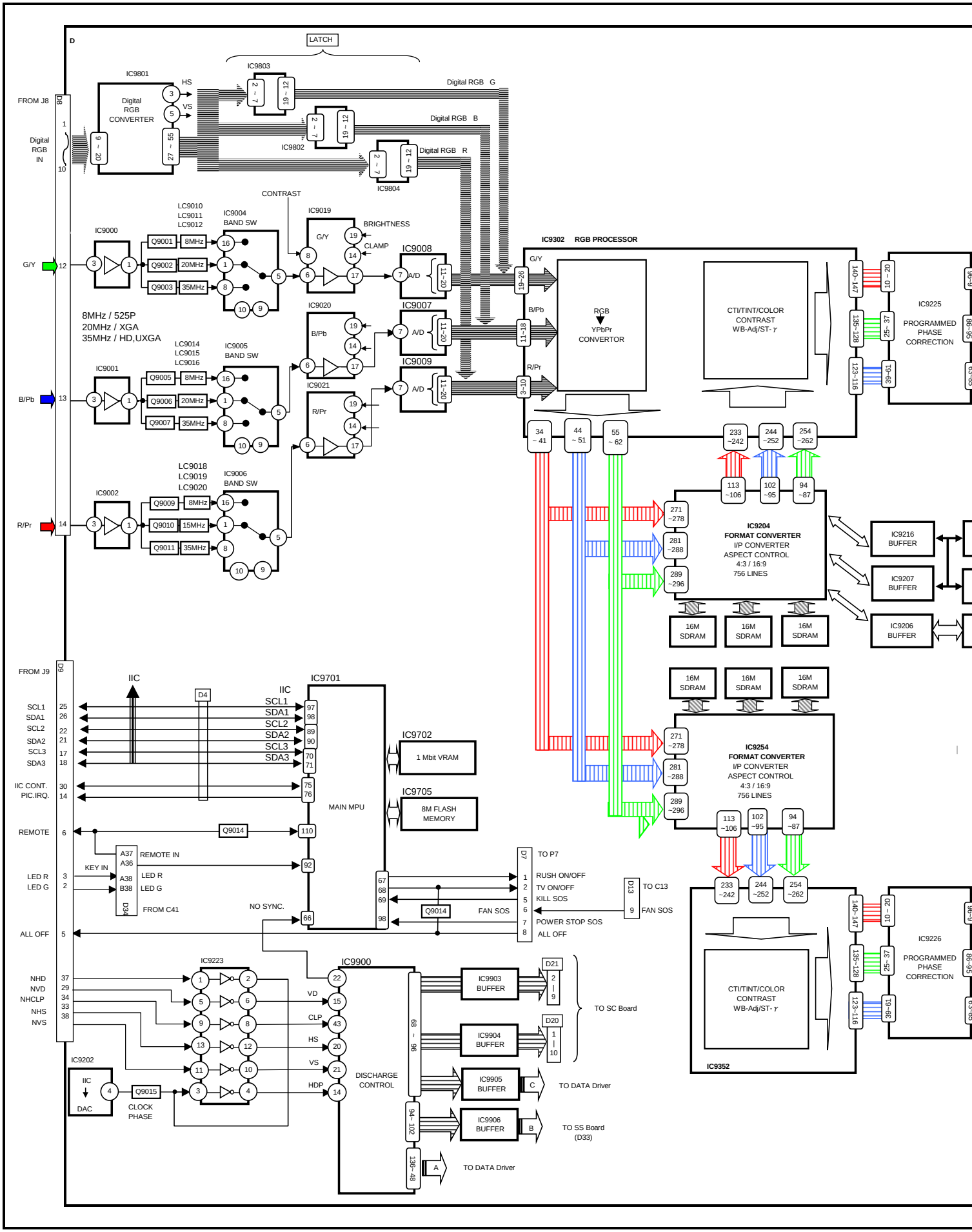

J-BOARD TNPA2244N (2/3)
C951
Q951
Q1002
Q1003
Q1004
Q1005
Q1001
IC1001
C0JBAE000146
IC1002
C2BBFE000106
IC1003
C0EBB0000024
IC1004
C1DB00000274
A
B
C
D
E
F
14
15
16
17

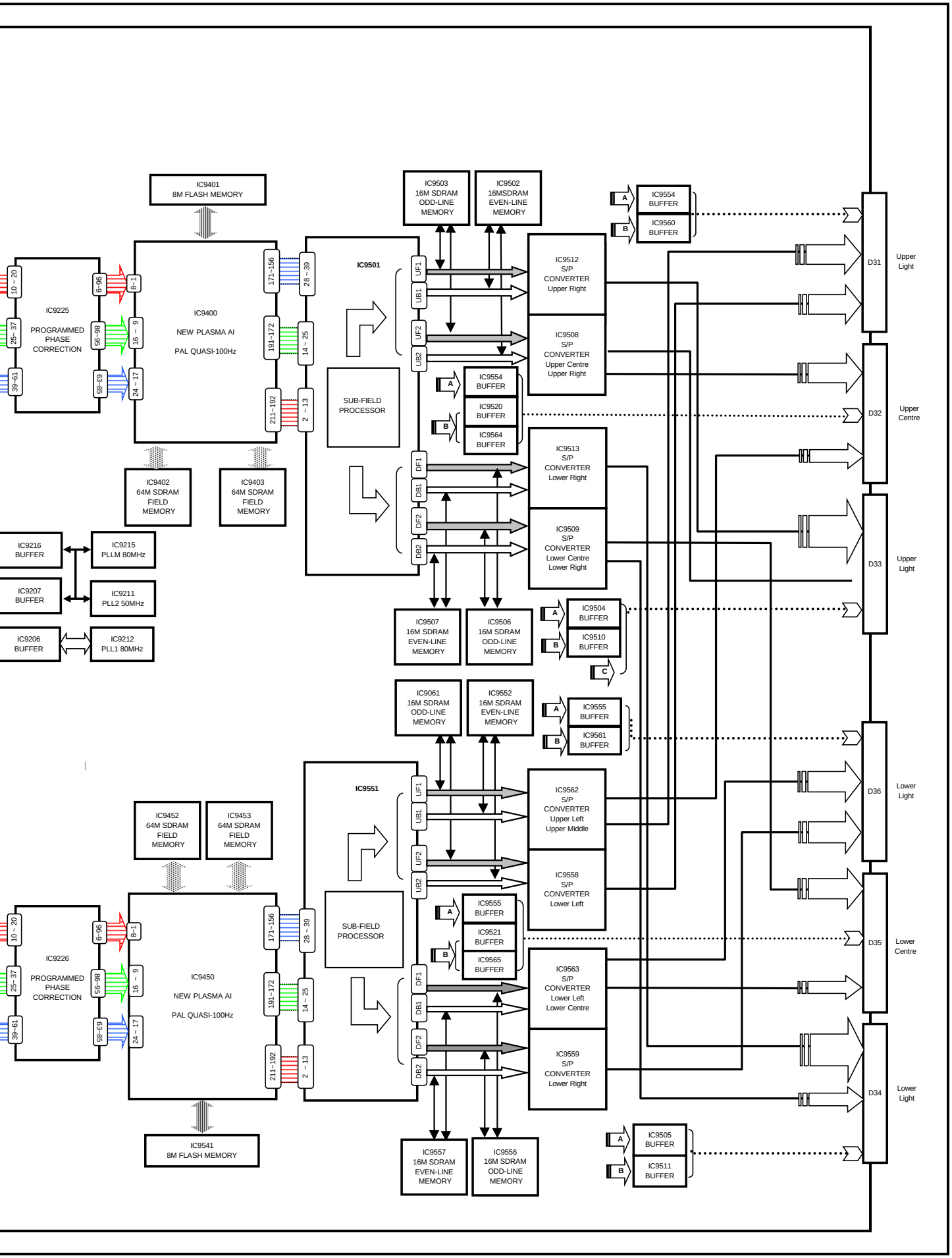
## 13.17. J-Board (3 of 3) Schematic Diagram




/3)
TO
H3-BOARD
(H37)
J11
ROUT
GND
TO
H3-BOARD
(H37)
J10
LOUT
GND
ON OFF
-13.5V
IC2301
C1AA00000561
IC2302
C1AA00000561
13.5V
-13.5V
1000u
MA8J111100L
D2307

# 13.18. D-Board Block Diagram

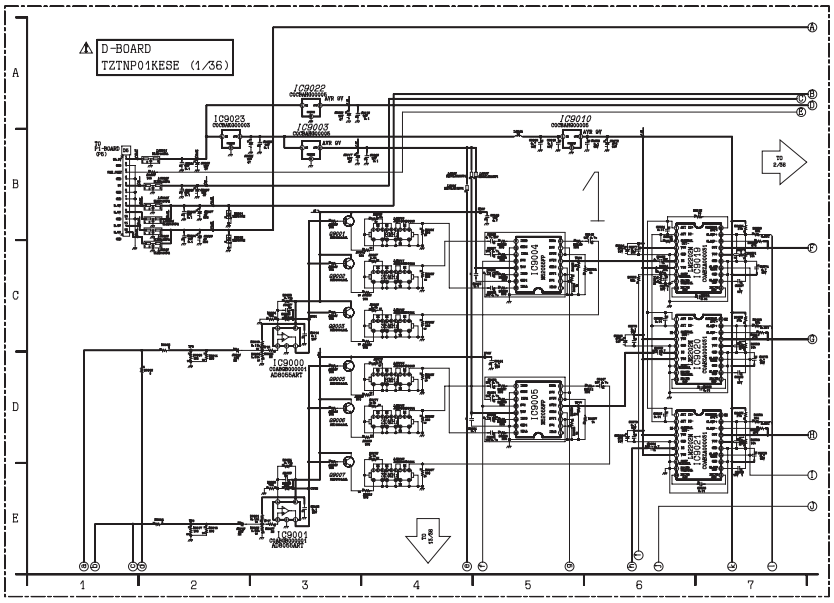


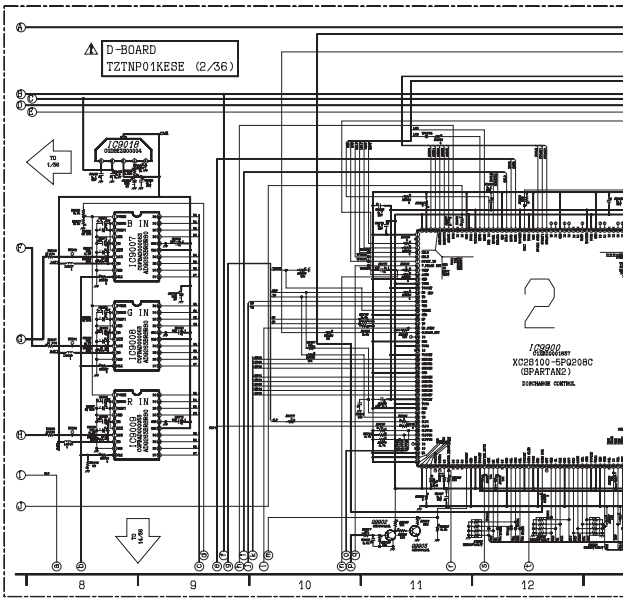

IC9401
8M FLASH MEMORY
IC9503
16M SDRAM
ODD-LINE
MEMORY
IC9502
16MSDRAM
EVEN-LINE
MEMORY
IC9554
BUFFER
IC9560
BUFFER
IC9225
PROGRAMMED
PHASE
CORRECTION
IC9400
NEW PLASMA AI
PAL QUASI-100Hz
IC9501
SUB-FIELD
PROCESSOR
IC9512
S/P
CONVERTER
Upper Right
IC9508
S/P
CONVERTER
Upper Centre
Upper Right
IC9554
BUFFER
IC9520
BUFFER
IC9564
BUFFER
IC9513
S/P
CONVERTER
Lower Right
IC9509
S/P
CONVERTER
Lower Centre
Lower Right
IC9402
64M SDRAM
FIELD
MEMORY
IC9403
64M SDRAM
FIELD
MEMORY
IC9216
BUFFER
IC9215
PLLM 80MHz
IC9207
BUFFER
IC9211
PLL2 50MHz
IC9206
BUFFER
IC9212
PLL1 80MHz
IC9507
16M SDRAM
EVEN-LINE
MEMORY
IC9506
16M SDRAM
ODD-LINE
MEMORY
IC9504
BUFFER
IC9510
BUFFER
D31
Upper
Light
D32
Upper
Centre
D33
Upper
Light
IC9061
16M SDRAM
ODD-LINE
MEMORY
IC9552
16M SDRAM
EVEN-LINE
MEMORY
IC9555
BUFFER
IC9561
BUFFER
IC9452
64M SDRAM
FIELD
MEMORY
IC9453
64M SDRAM
FIELD
MEMORY
IC9551
SUB-FIELD
PROCESSOR
IC9562
S/P
CONVERTER
Upper Left
Upper Middle
IC9558
S/P
CONVERTER
Lower Left
IC9555
BUFFER
IC9521
BUFFER
IC9565
BUFFER
IC9563
S/P
CONVERTER
Lower Left
Lower Centre
IC9559
S/P
CONVERTER
Lower Right
IC9226
PROGRAMMED
PHASE
CORRECTION
IC9450
NEW PLASMA AI
PAL QUASI-100Hz
IC9541
8M FLASH MEMORY
IC9557
16M SDRAM
EVEN-LINE
MEMORY
IC9556
16M SDRAM
ODD-LINE
MEMORY
IC9505
BUFFER
IC9511
BUFFER
D36
Lower
Light
D35
Lower
Centre
D34
Lower
Light

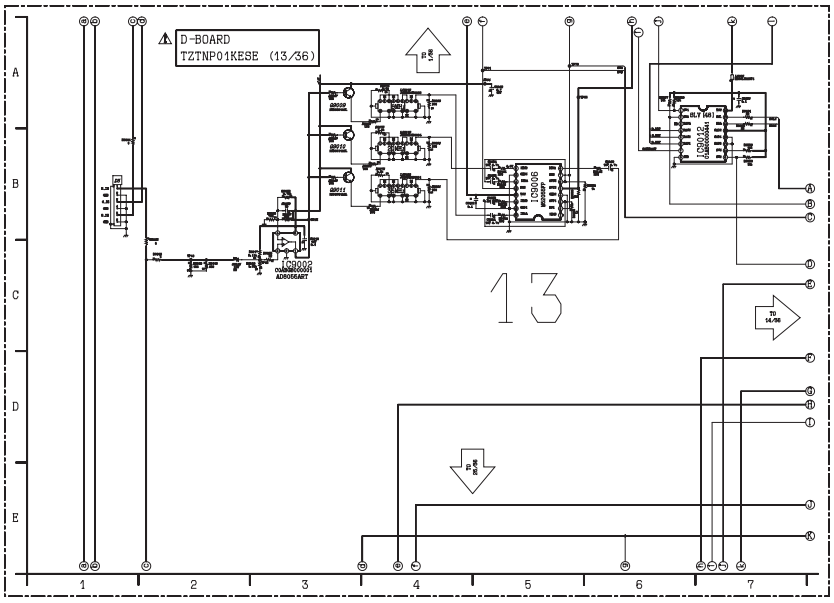
## 13.19. D-Board IC Location

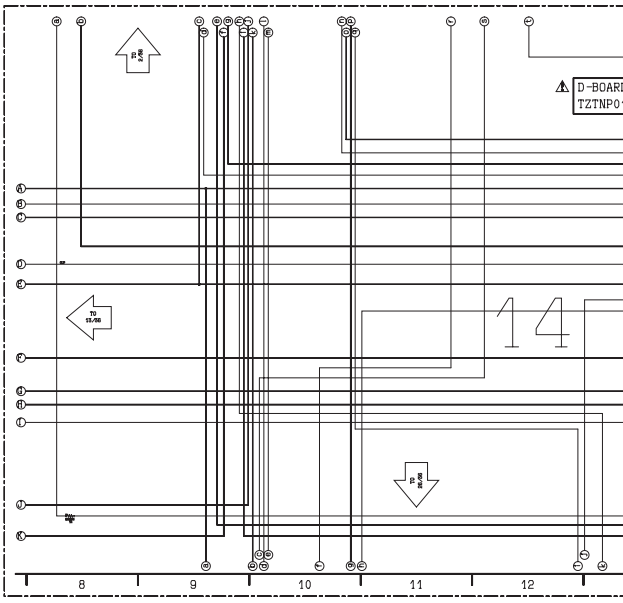
| IC No. | */36 | IC No. | */36 | IC No. | */36 |
|---|---|---|---|---|---|
| IC9000 | 1 | IC9400 | 6 | IC9804 | 25 |
| IC9001 | 1 | IC9401 | 6 | IC9900 | 2 |
| IC9002 | 13 | IC9402 | 6 | IC9901 | 3 |
| IC9003 | 1 | IC9403 | 6 | IC9902 | 3 |
| IC9004 | 1 | IC9450 | 30 | IC9903 | 3 |
| IC9005 | 1 | IC9451 | 18 | IC9904 | 3 |
| IC9006 | 13 | IC9452 | 30 | IC9905 | 3 |
| IC9007 | 2 | IC9453 | 30 | IC9906 | 15 |
| IC9008 | 2 | IC9501 | 22 | IC9907 | 3 |
| IC9009 | 2 | IC9502 | 23 | IC9908 | 2 |
| IC9010 | 1 | IC9503 | 10 | IC9909 | 2 |
| IC9012 | 13 | IC9504 | 10 | | |
| IC9014 | 16 | IC9505 | 34 | | |
| IC9018 | 2 | IC9506 | 34 | | |
| IC9019 | 1 | IC9507 | 23 | | |
| IC9020 | 1 | IC9508 | 23 | | |
| IC9021 | 1 | IC9509 | 23 | | |
| IC9022 | 1 | IC9510 | 23 | | |
| IC9023 | 1 | IC9511 | 23 | | |
| IC9024 | 16 | IC9512 | 24 | | |
| IC9036 | 16 | IC9513 | 24 | | |
| IC9047 | 5 | IC9516 | 21 | | |
| IC9048 | 17 | IC9520 | 10 | | |
| IC9057 | 19 | IC9521 | 34 | | |
| IC9061 | 7 | IC9551 | 19 | | |
| IC9093 | 4 | IC9552 | 20 | | |
| IC9200 | 3 | IC9554 | 8 | | |
| IC9201 | 3 | IC9555 | 32 | | |
| IC9202 | 15 | IC9556 | 31 | | |
| IC9204 | 4 | IC9557 | 20 | | |
| IC9206 | 16 | IC9558 | 20 | | |
| IC9207 | 4 | IC9559 | 20 | | |
| IC9209 | 4 | IC9560 | 20 | | |
| IC9210 | 16 | IC9561 | 20 | | |
| IC9211 | 4 | IC9562 | 21 | | |
| IC9212 | 16 | IC9563 | 21 | | |
| IC9213 | 4 | IC9564 | 21 | | |
| IC9214 | 16 | IC9565 | 21 | | |
| IC9215 | 4 | IC9701 | 26 | | |
| IC9217 | 4 | IC9702 | 26 | | |
| IC9223 | 15 | IC9703 | 26 | | |
| IC9225 | 5 | IC9704 | 27 | | |
| IC9226 | 29 | IC9705 | 27 | | |
| IC9250 | 27 | IC9706 | 26 | | |
| IC9251 | 27 | IC9707 | 27 | | |
| IC9254 | 28 | IC9708 | 26 | | |
| IC9259 | 28 | IC9801 | 25 | | |
| IC9302 | 5 | IC9802 | 25 | | |
| IC9352 | 29 | IC9803 | 25 | | |

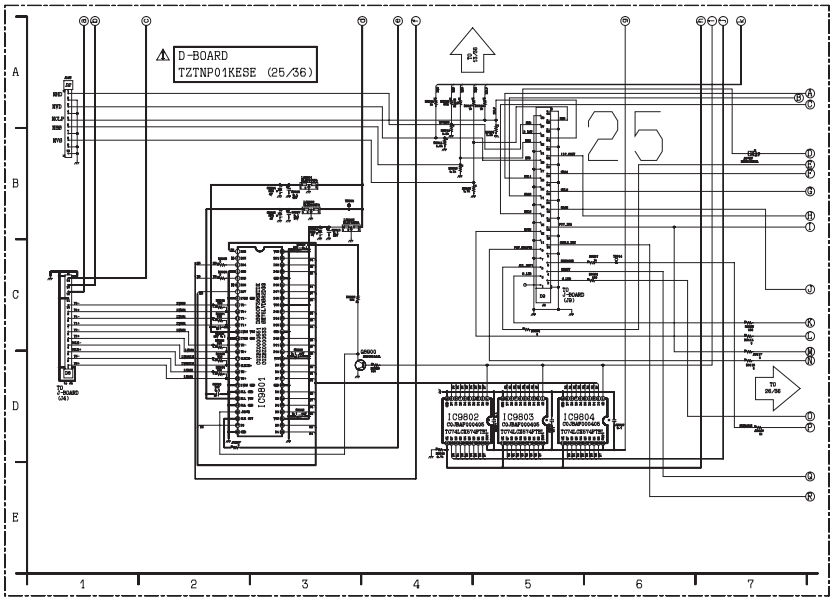
# 13.20. D-Board Information (1 of 4)

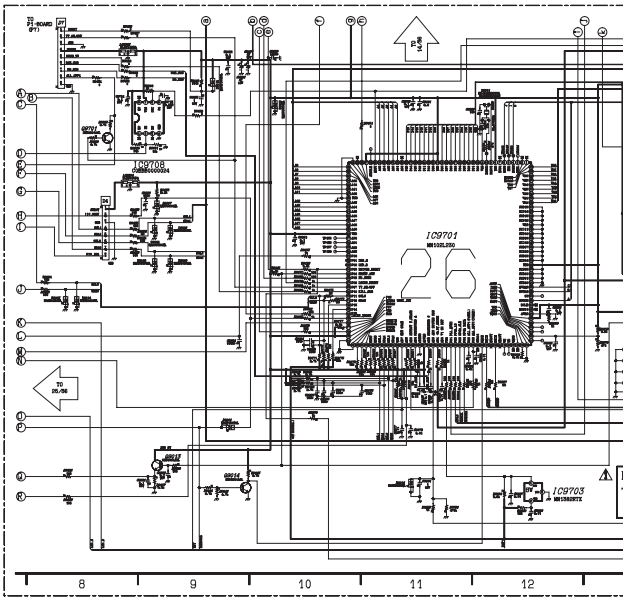


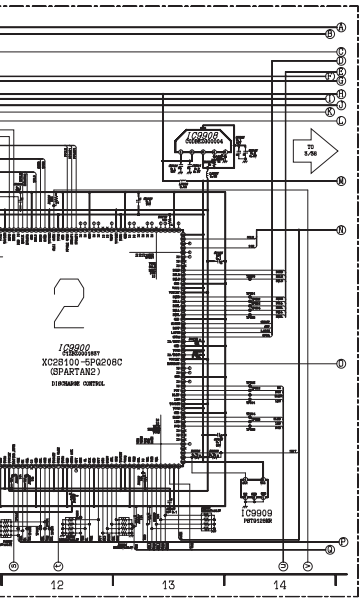



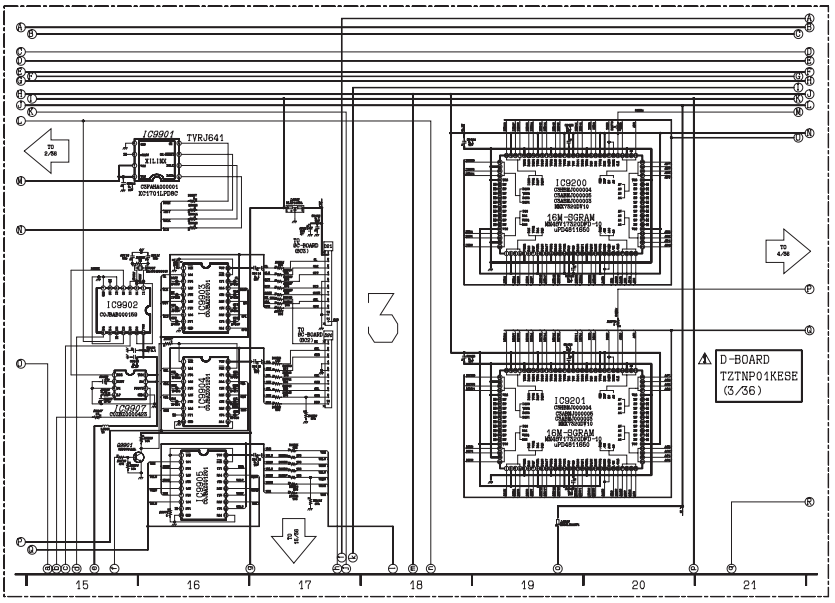



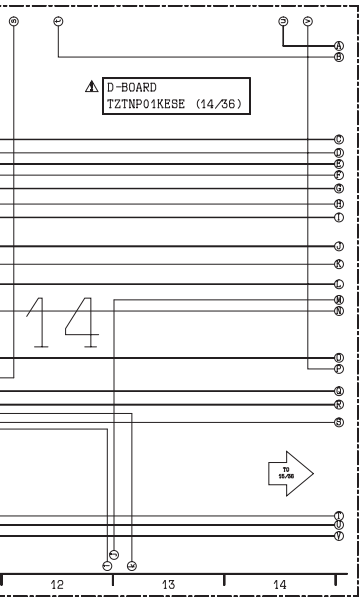



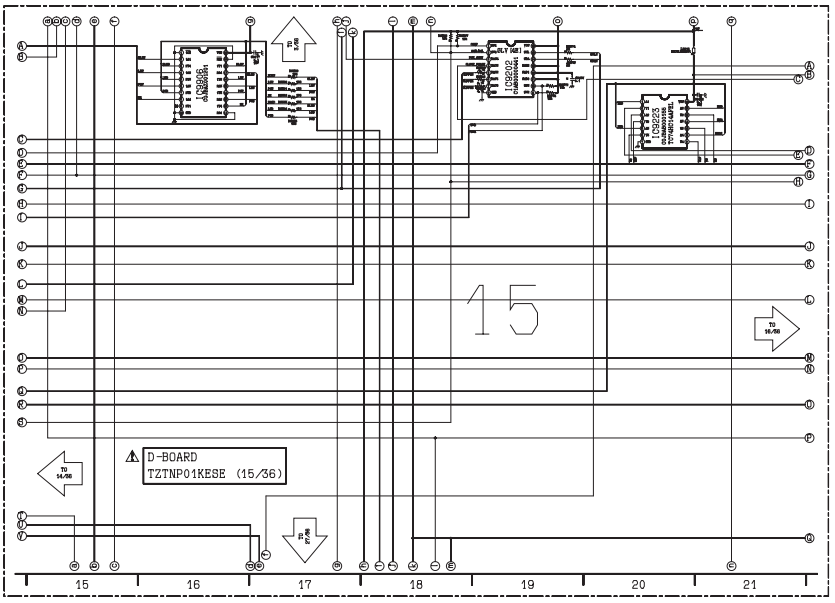


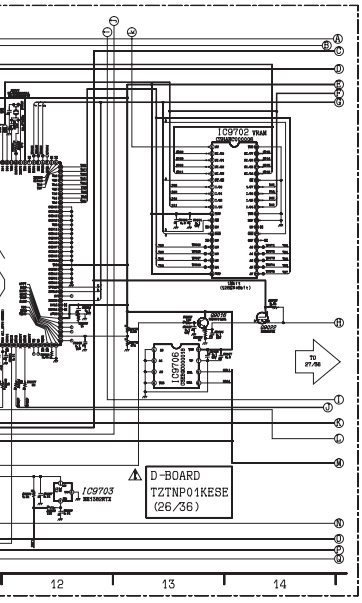



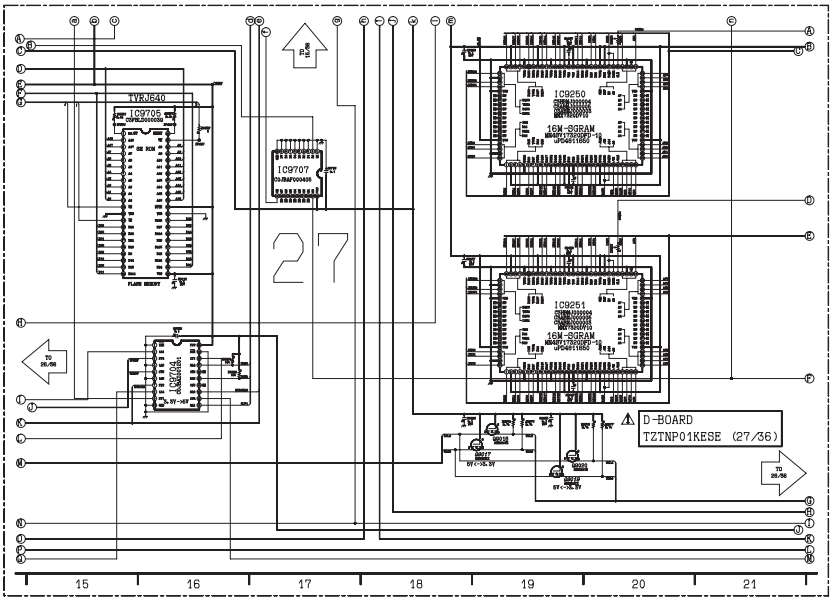

IC9908
IC9900
XC2S100-5PQ208C
(SPARTAN2)
IC9909
2
12
13
14


IC9901
TVRJ641
IC9902
IC9907
IC9200
16M-SGRAM
IC9201
16M-SGRAM
3
D-BOARD
TZTNP01KESE
(3/36)
15
16
17
18
19
20
21

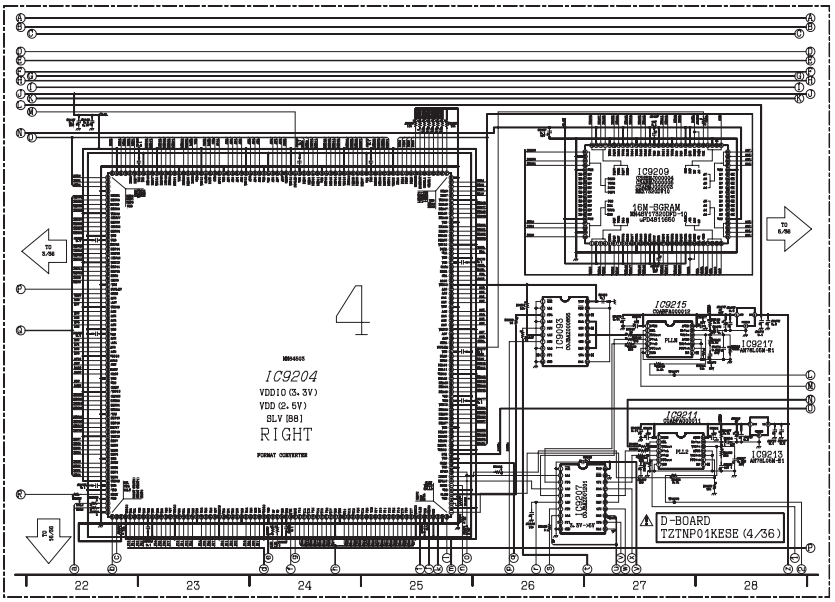

D-BOARD
TZTNP01KESE (14/36)
14
12
13
14

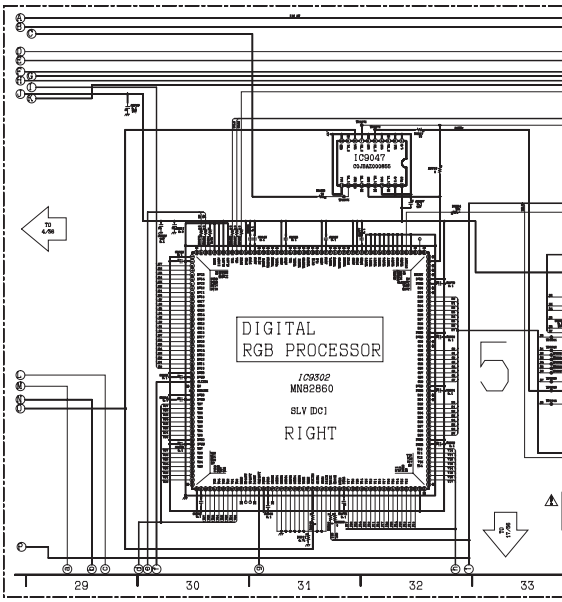

IC9220
IC9223
15
D-BOARD
TZTNP01KESE (15/36)
15
16
17
18
19
20
21

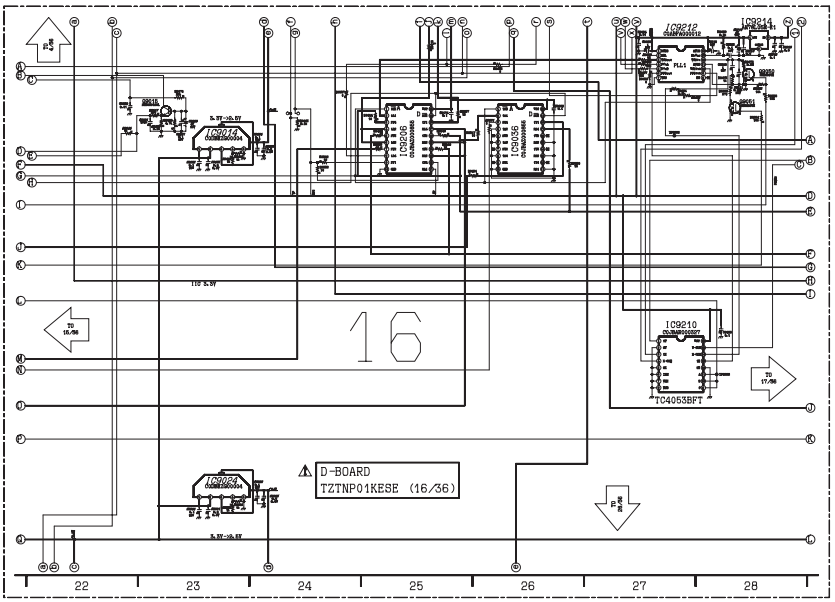

IC9702 VRAM
IC9706
IC9703
D-BOARD
TZTNP01KESE
(26/36)
12
13
14

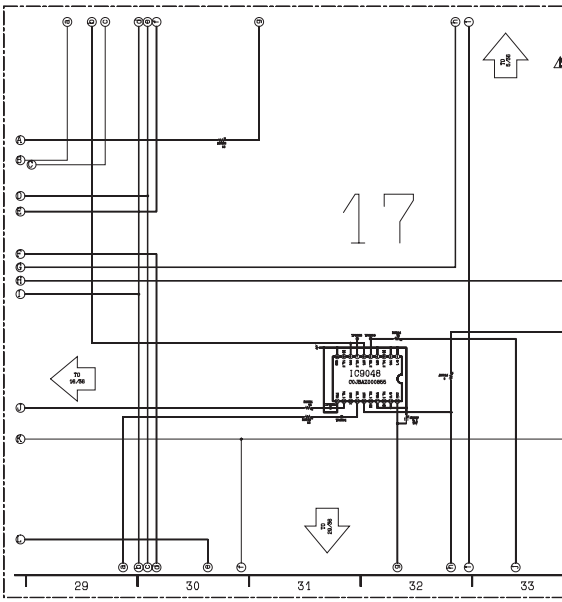

TVRJ640
IC9705
IC9707
IC9250
16M-SGRAM
IC9251
16M-SGRAM
27
D-BOARD
TZTNP01KESE (27/36)
15
16
17
18
19
20
21

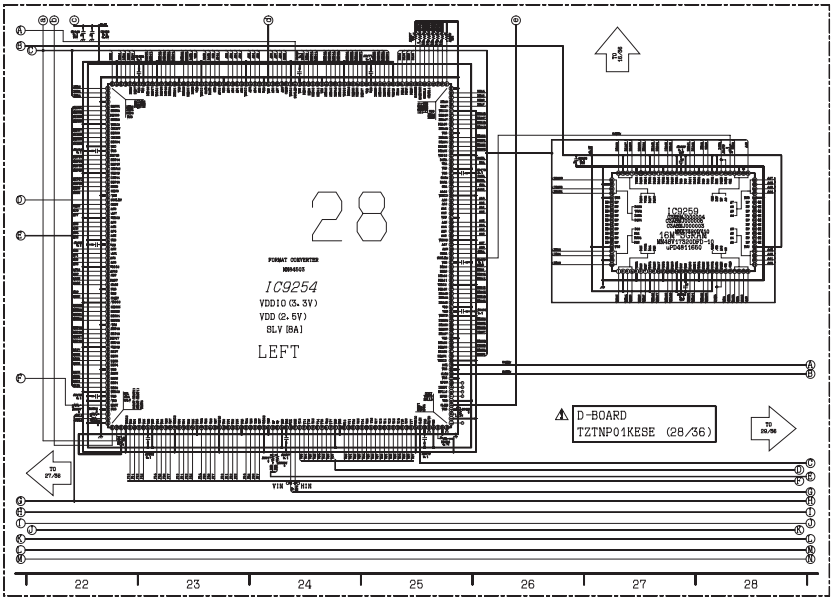
# 13.21. D-Board Information (2 of 4)

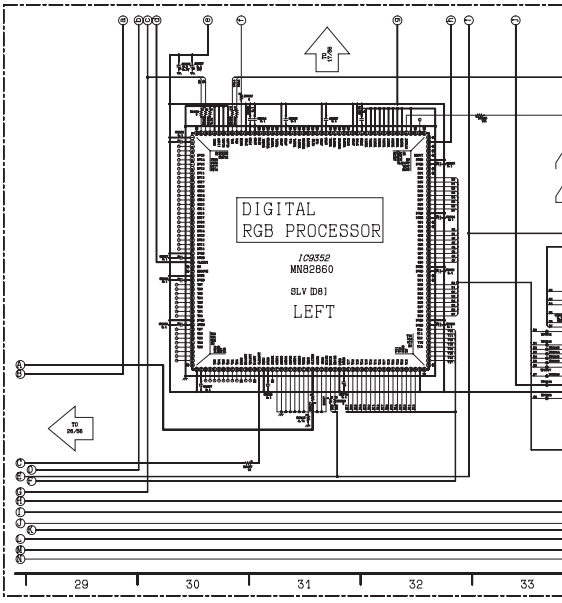


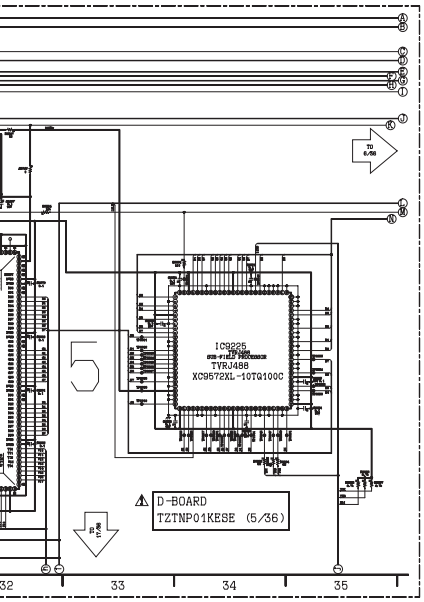



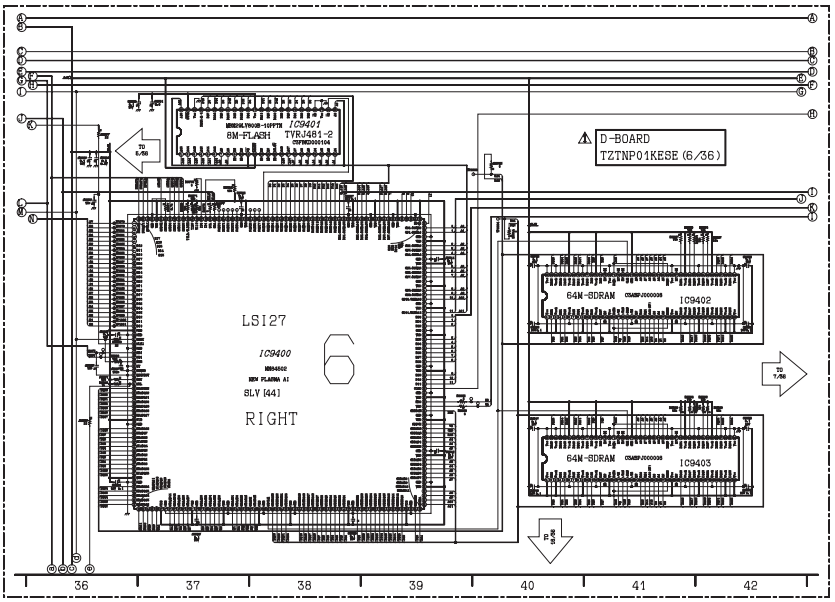



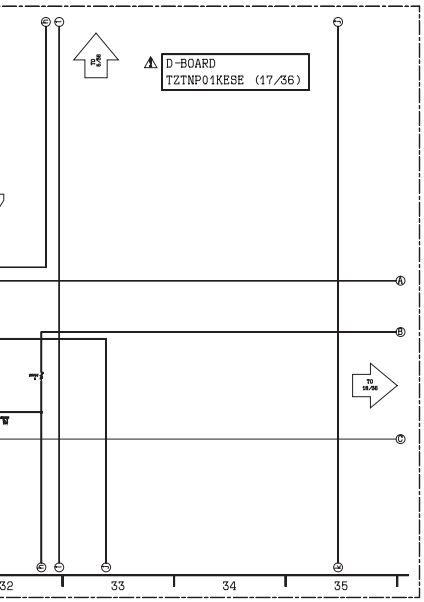



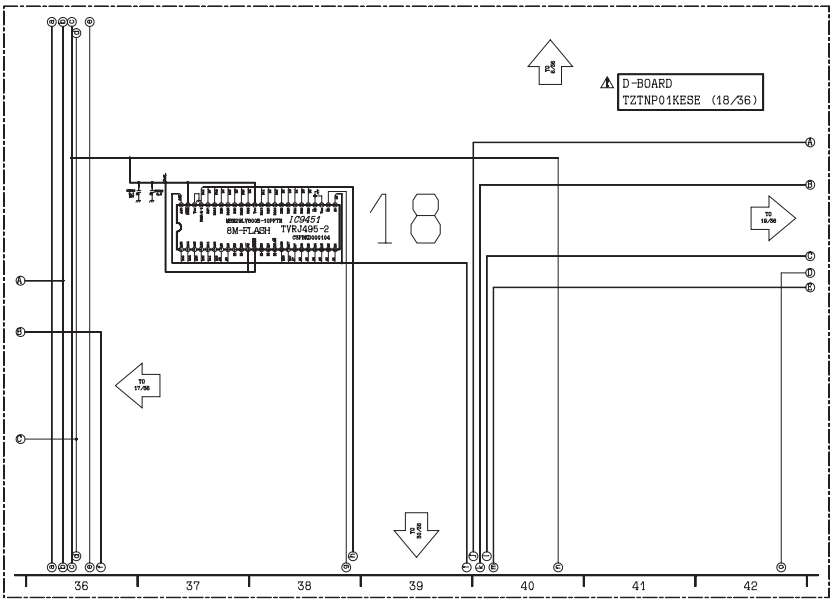



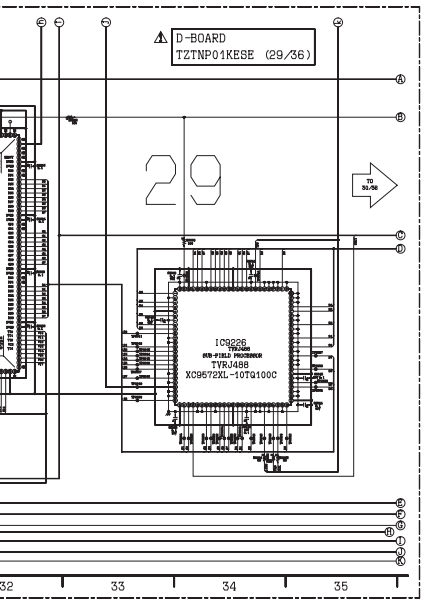



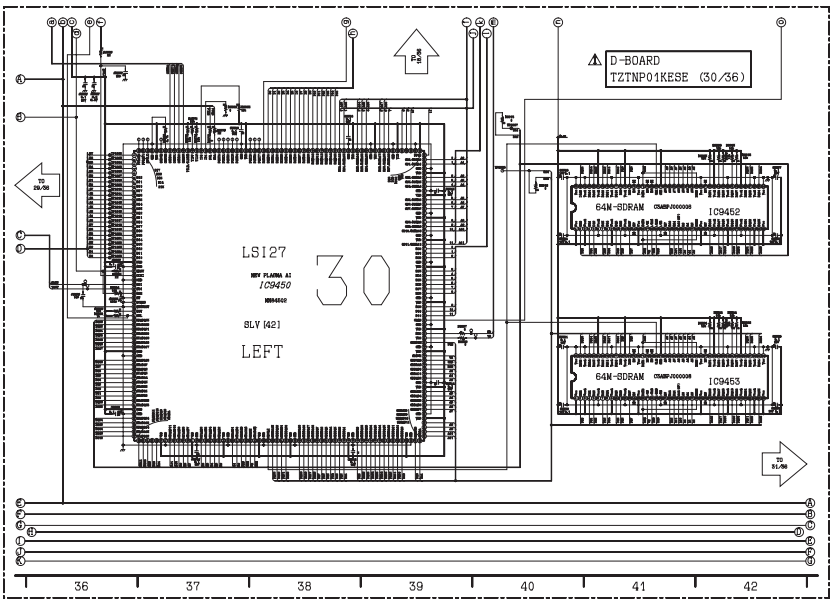

IC9226
TVRJ488
XC9572XL-10TQ100C
5
D-BOARD
TZTNP01KESE (5/36)
32
33
34
35


IC9401
6M-FLASH
TVRJ481-2
LSI27
IC9400
6
SLV (44)
RIGHT
64M-SDRAM
IC9402
64M-SDRAM
IC9403
D-BOARD
TZTNP01KESE (6/36)
36
37
38
39
40
41
42

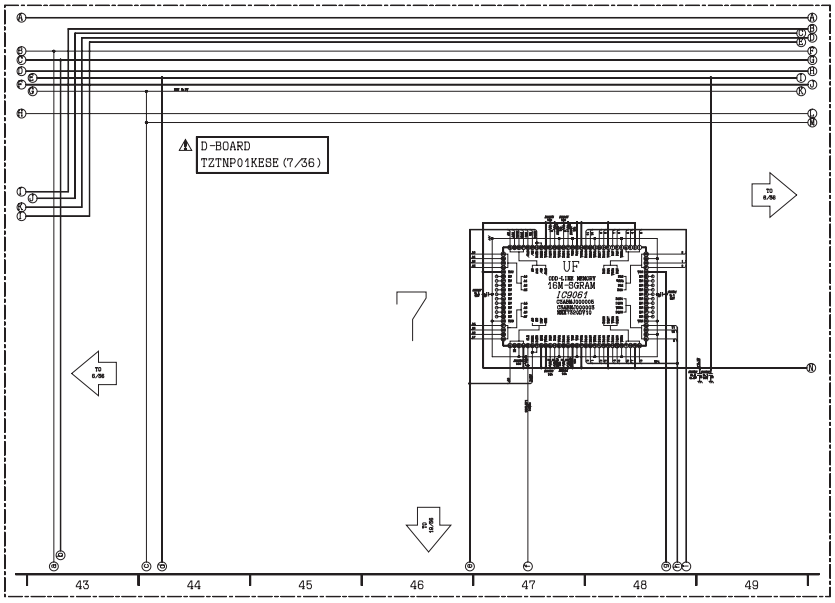

D-BOARD
TZTNP01KESE (17/36)
32
33
34
35

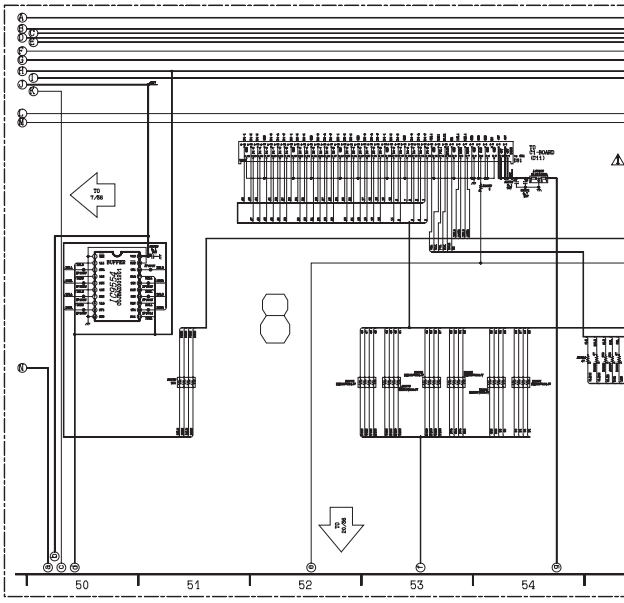

18
D-BOARD
TZTNP01KESE (18/36)
36
37
38
39
40
41
42

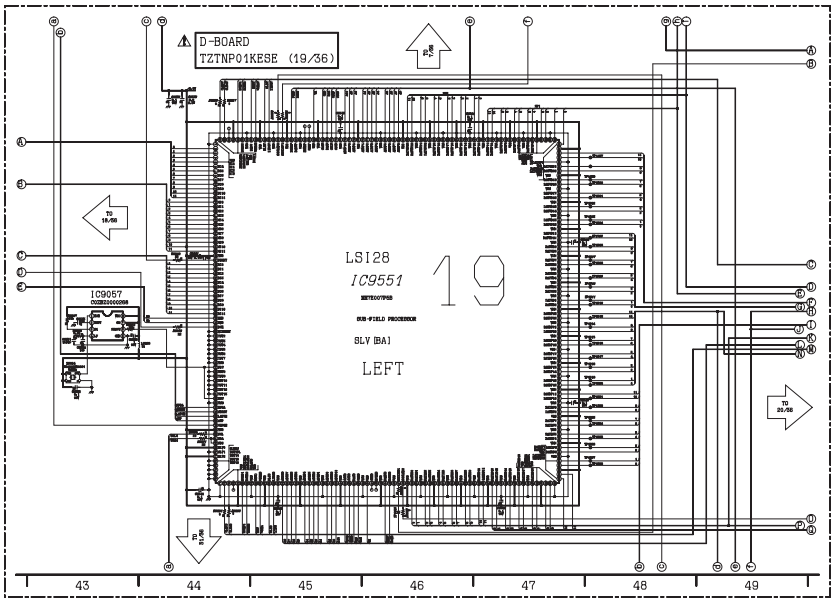

29
D-BOARD
TZTNP01KESE (29/36)
IC9226
TVRJ488
XC9572XL-10TQ100C
32
33
34
35

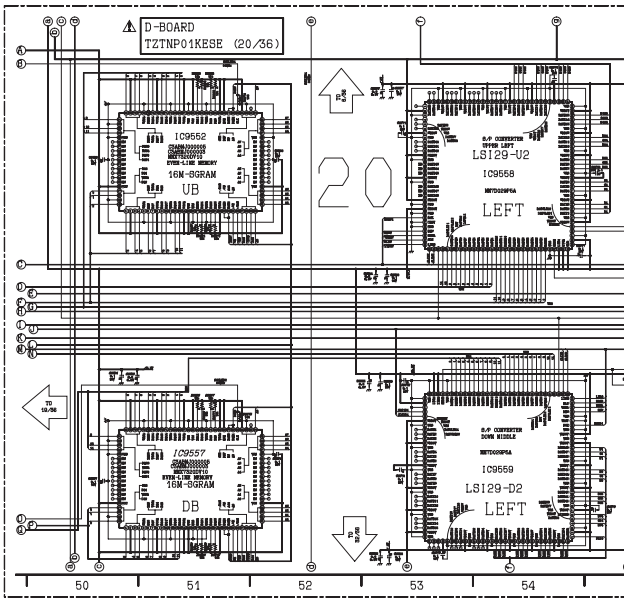

LSI27
IC9450
30
SLV (42)
LEFT
64M-SDRAM
IC9452
64M-SDRAM
IC9453
D-BOARD
TZTNP01KESE (30/36)
36
37
38
39
40
41
42

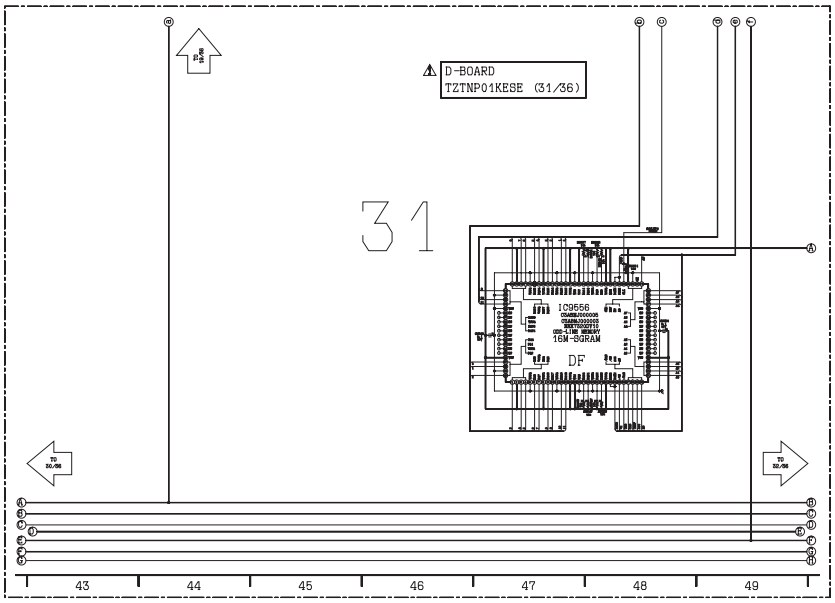
# 13.22. D-Board Information (3 of 4)

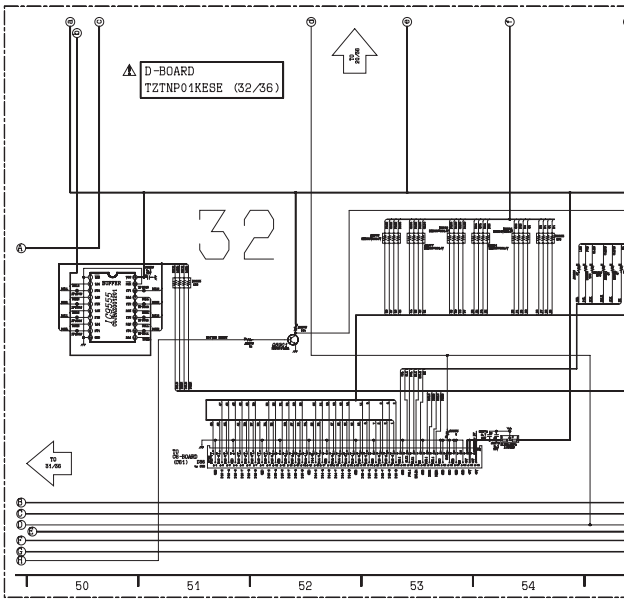


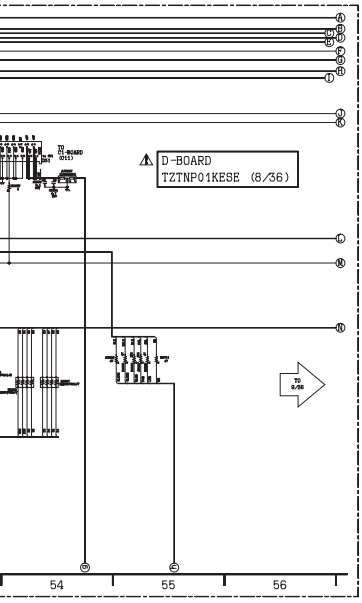



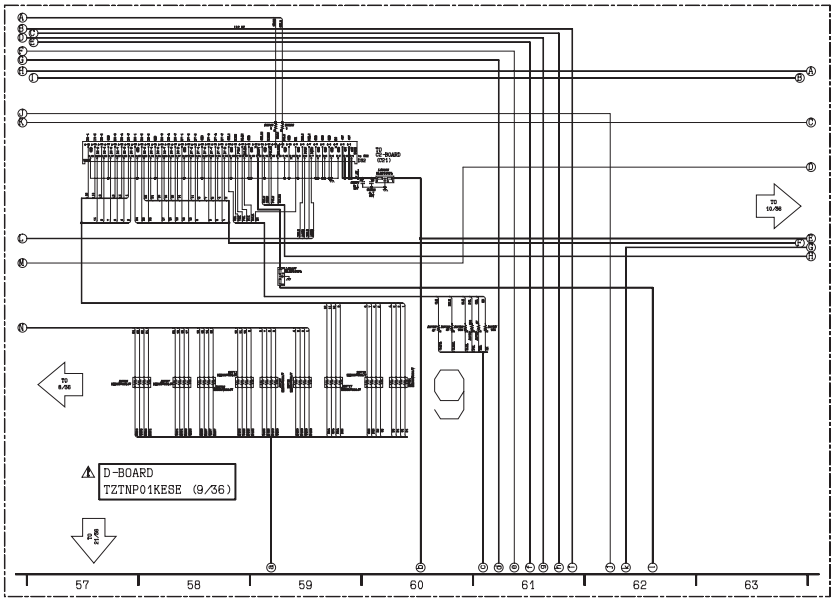



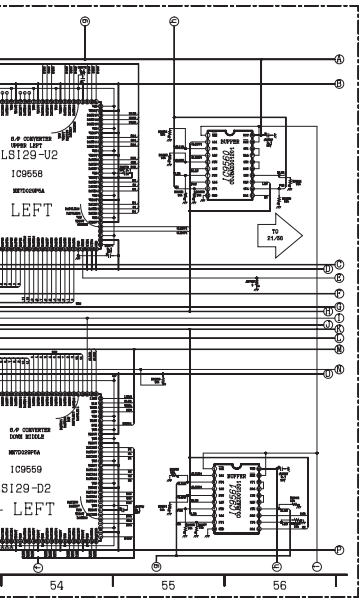



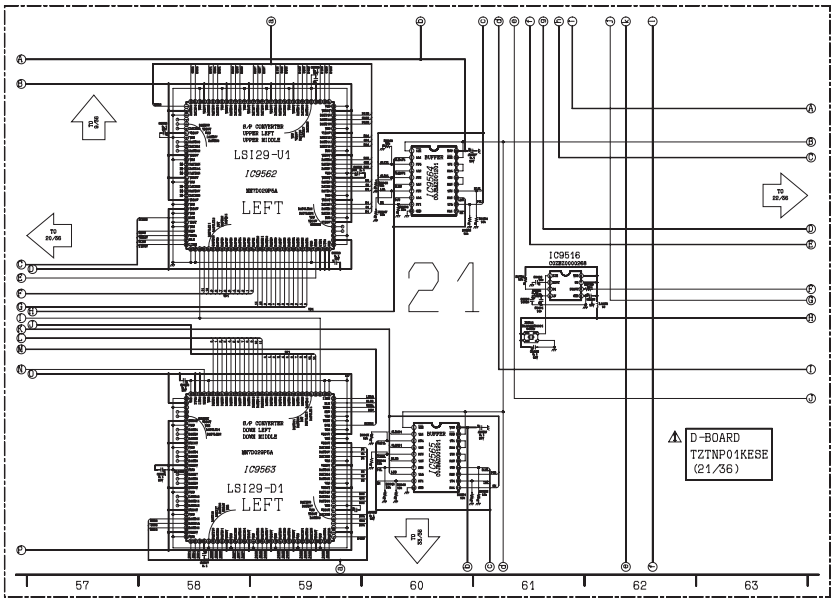



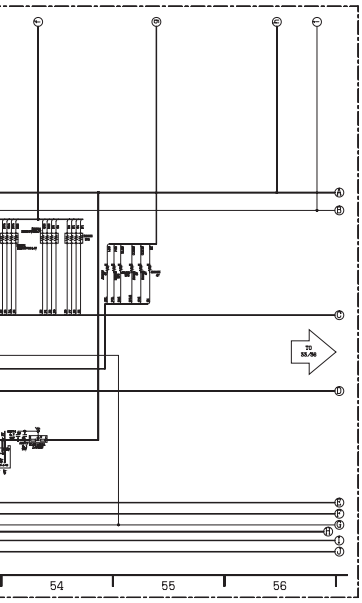



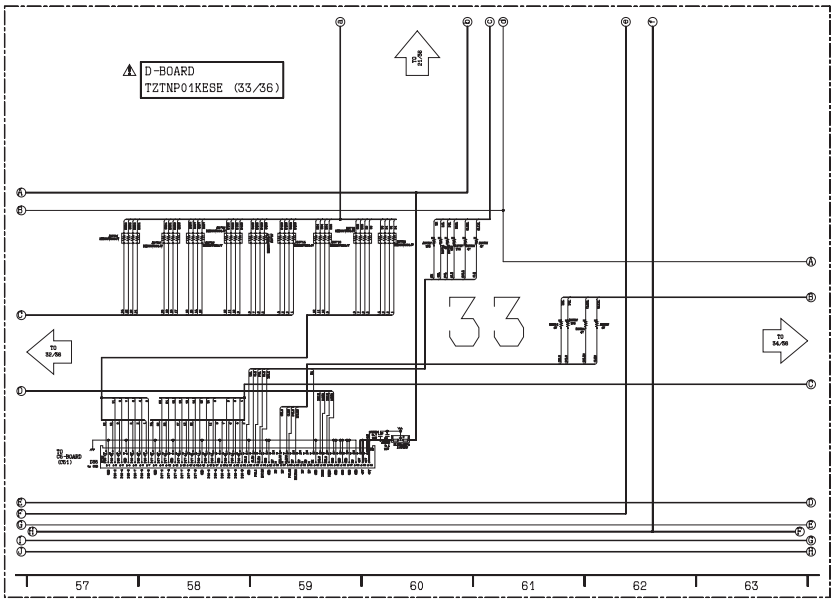

D-BOARD
TZTNP01KESE (8/36)
54
55
56


D-BOARD
TZTNP01KESE (9/36)
9
57
58
59
60
61
62
63

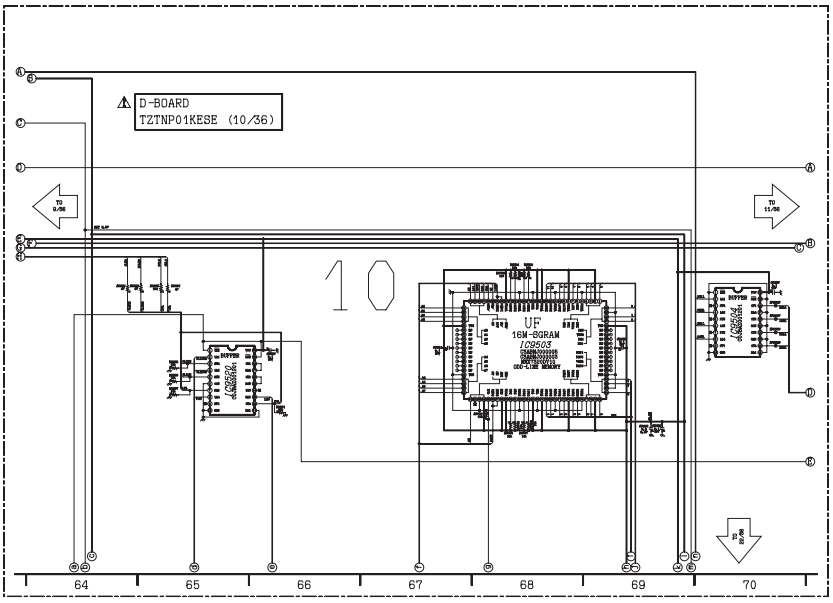

LSI29-U2
IC9558
LEFT
LSI29-D2
IC9559
54
55
56

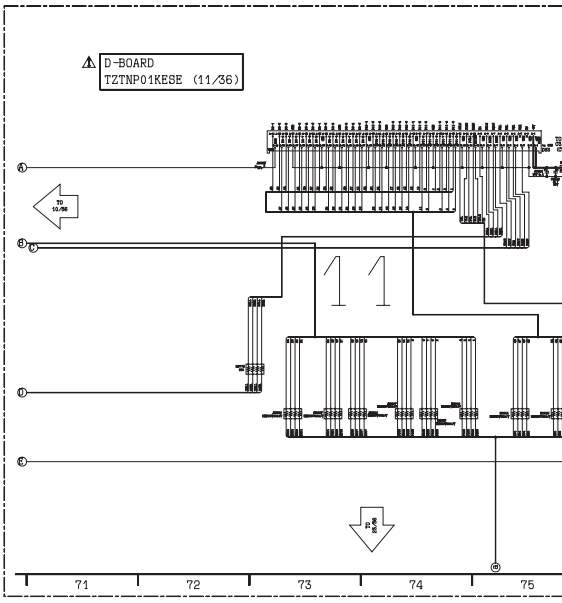

LSI29-U1
IC9562
LEFT
LSI29-D1
IC9563
LEFT
IC9516
21
D-BOARD
TZTNP01KESE
(21/36)
57
58
59
60
61
62
63

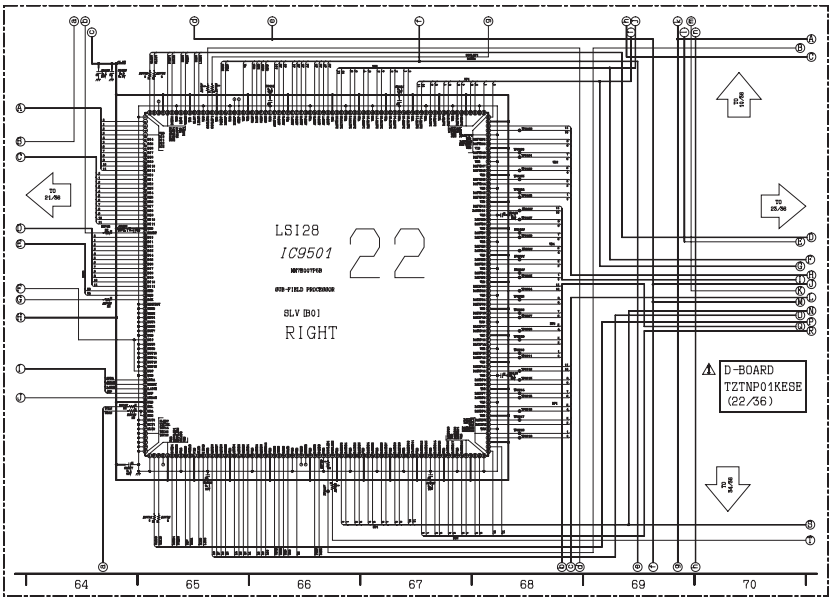

54
55
56

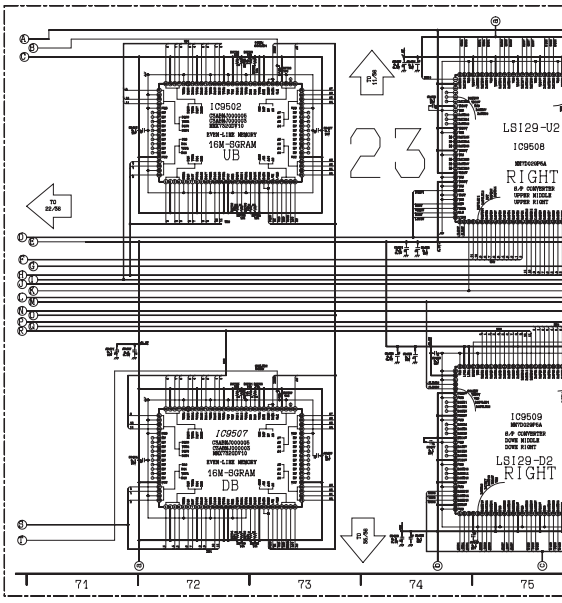

D-BOARD
TZTNP01KESE (33/36)
33
57
58
59
60
61
62
63

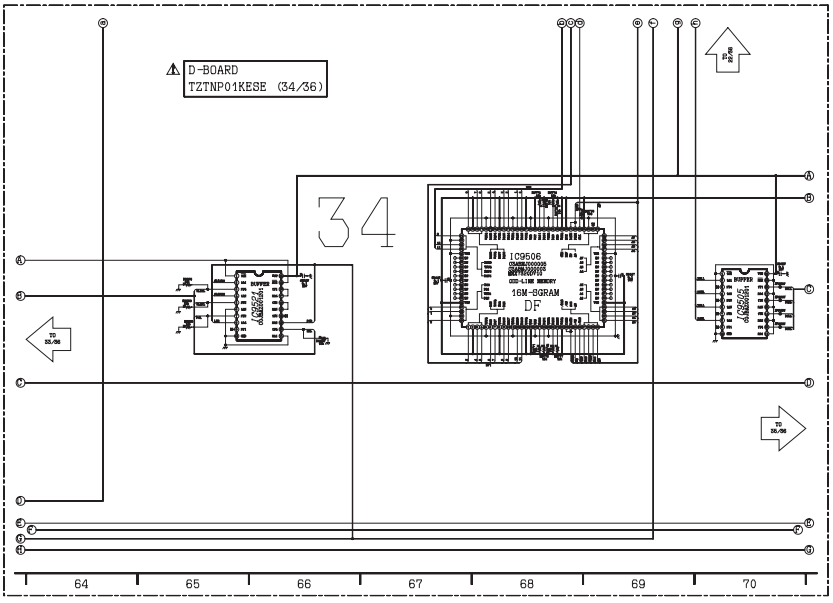
# 13.23. D-Board Information (4 of 4)

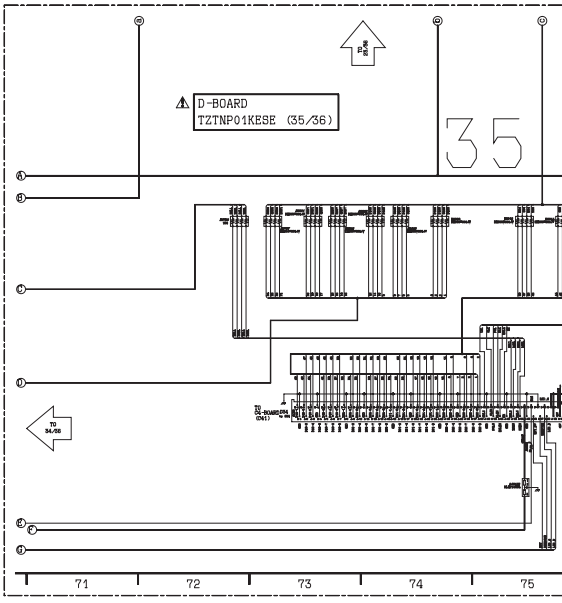


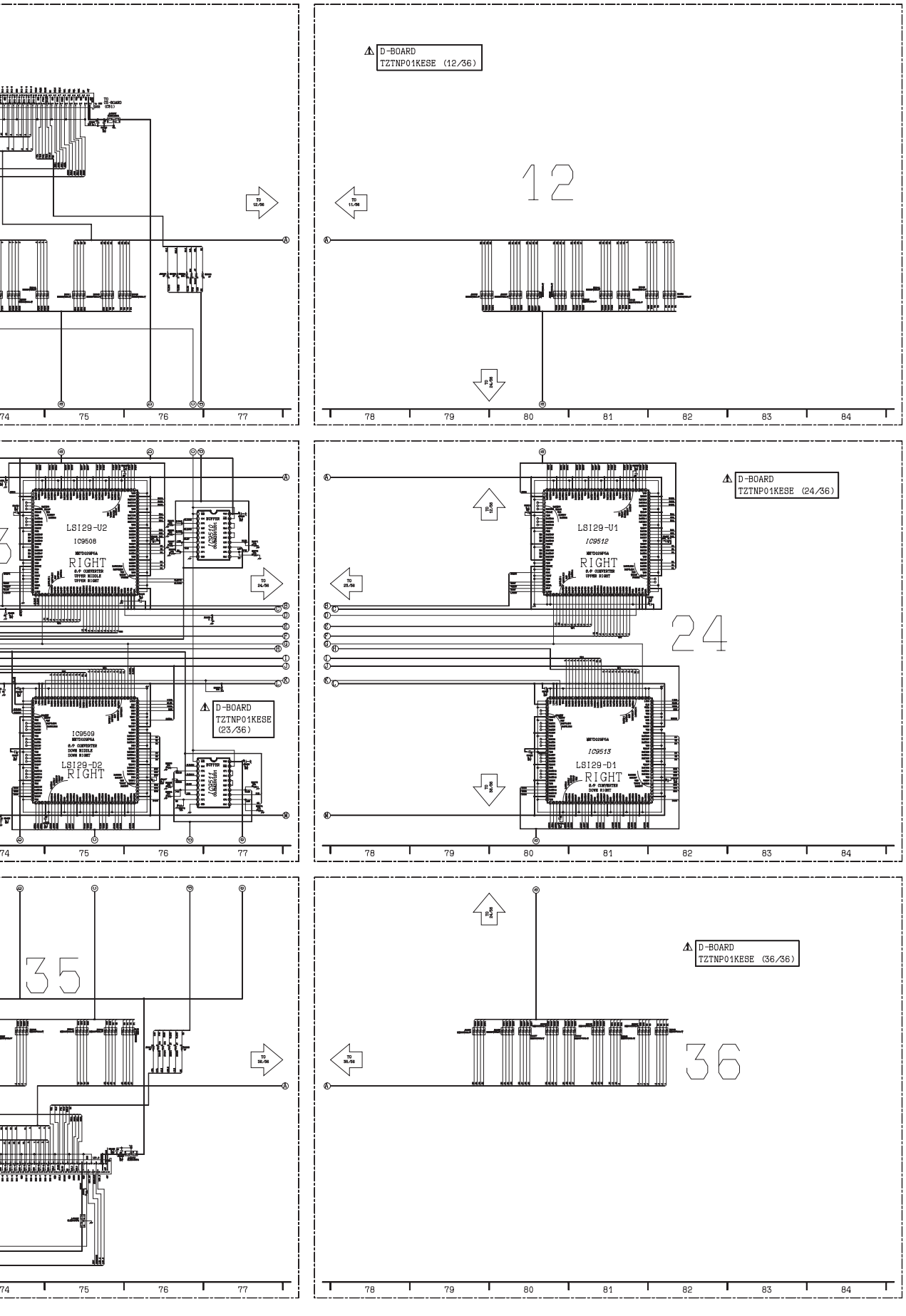



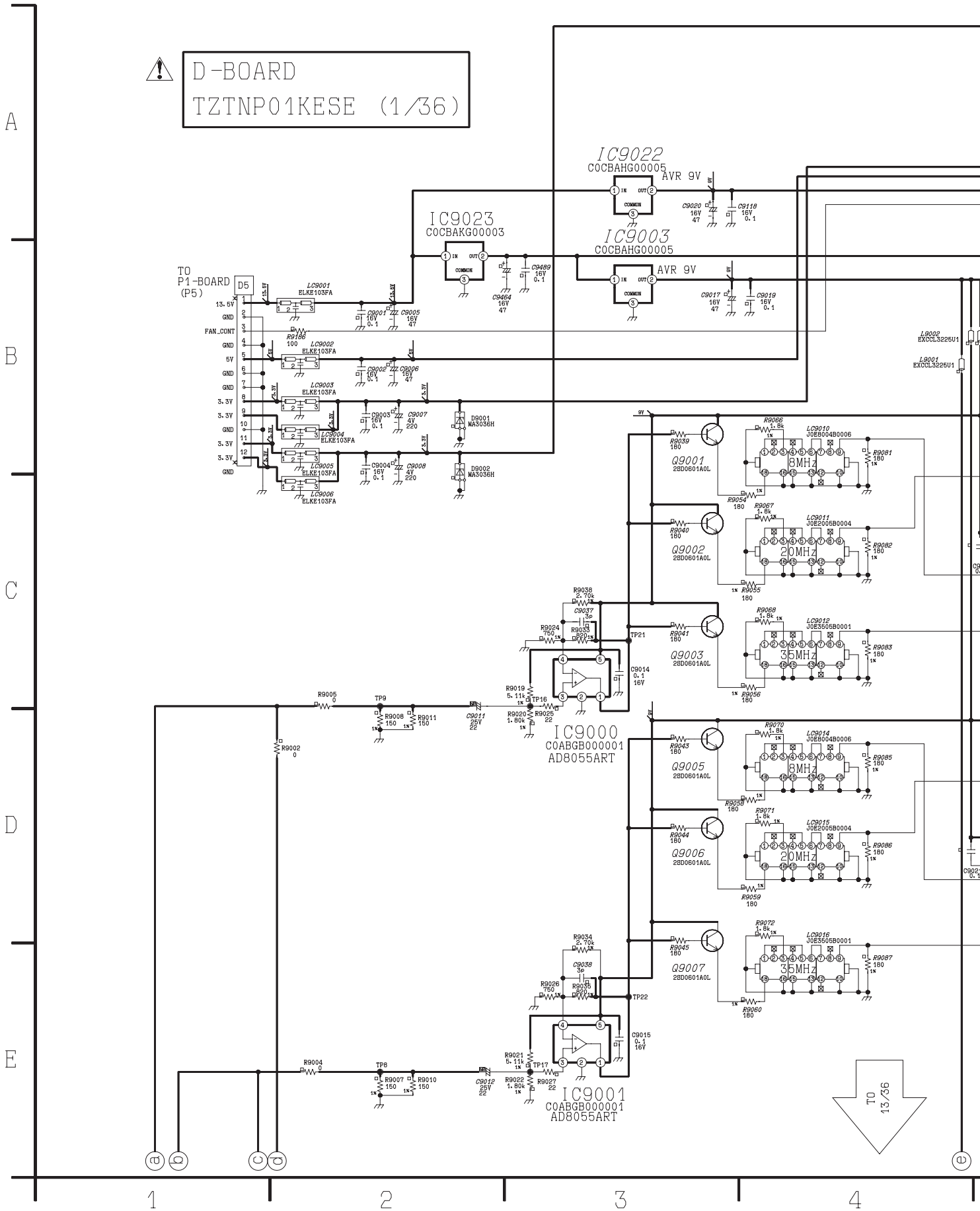



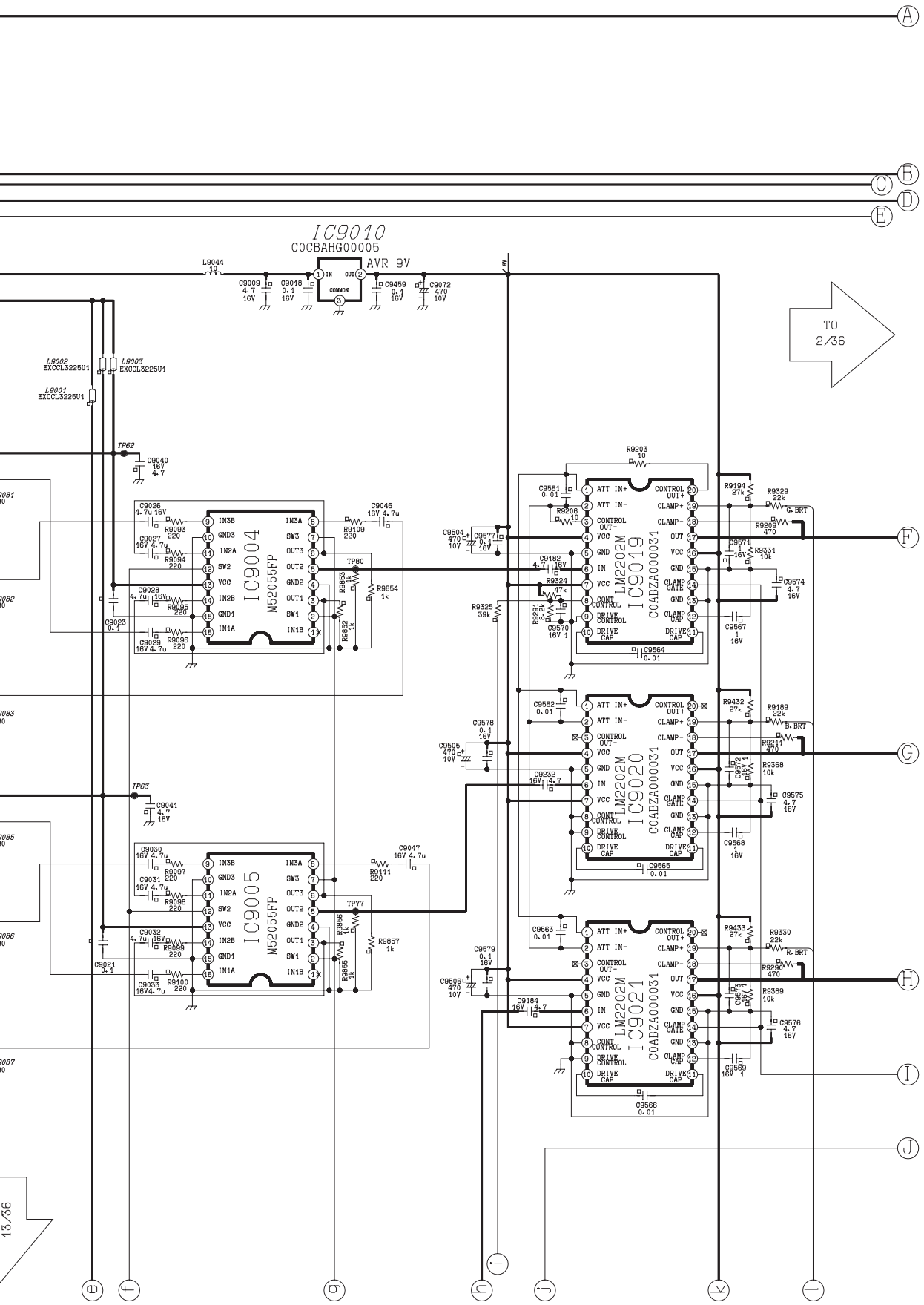



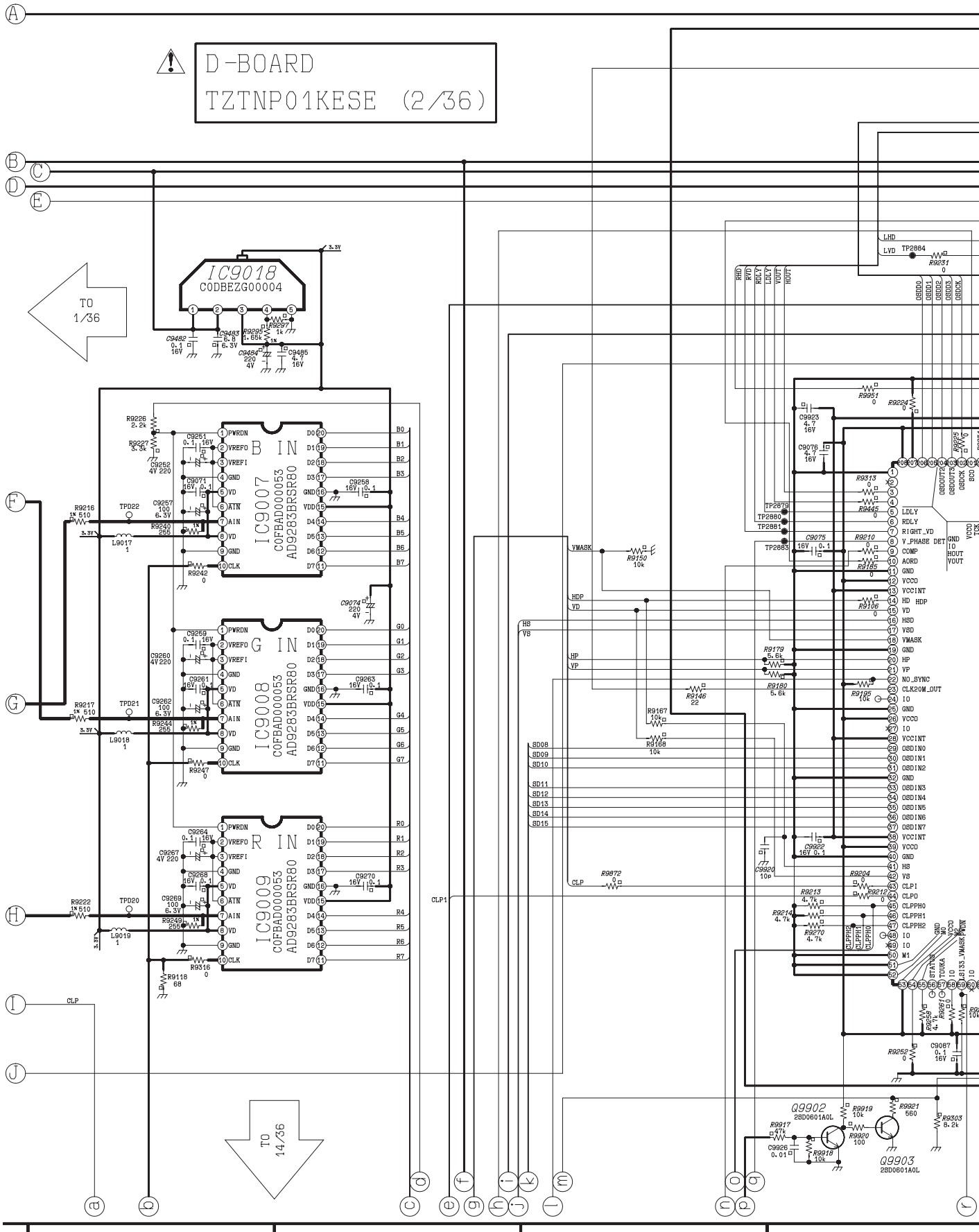

D-BOARD
TZTNP01KESE (12/36)
12
D-BOARD
TZTNP01KESE (23/36)
LSI29-U2
IC9508
RIGHT
IC9509
LSI29-D2
RIGHT
D-BOARD
TZTNP01KESE (24/36)
LSI29-U1
IC9512
RIGHT
24
IC9513
LSI29-D1
RIGHT
35
D-BOARD
TZTNP01KESE (36/36)
36
74
75
76
77
78
79
80
81
82
83
84

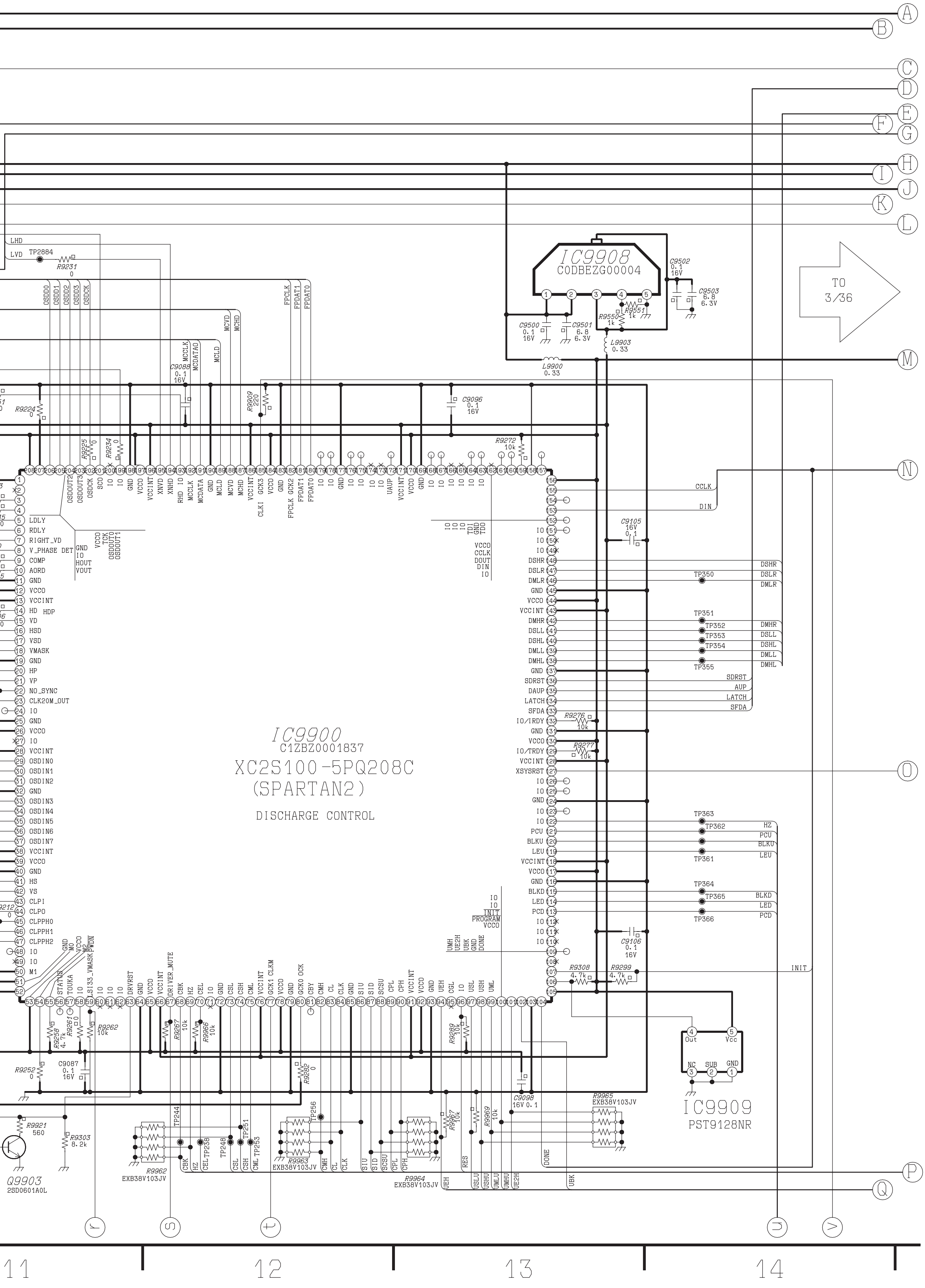
## 13.24. D-Board (1 of 36) Schematic Diagram



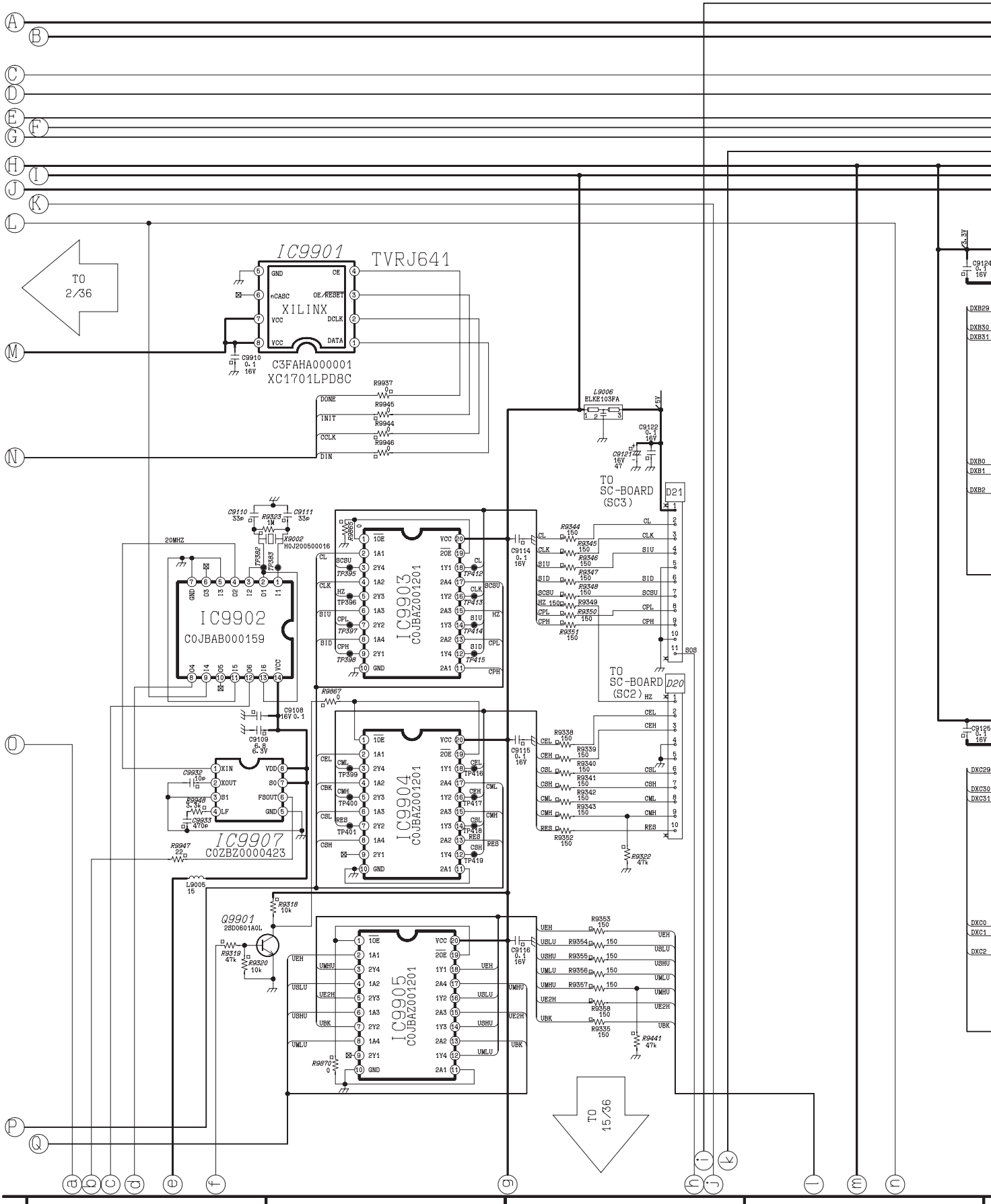

IC9010
C0CBAHG00005
AVR 9V
TO 2/36
IC9004
M52055FP
IC9005
M52055FP
IC9019
LM2202M
C0ABZA000031
IC9020
LM2202M
C0ABZA000031
IC9021
LM2202M
C0ABZA000031
13/36
5
6
7

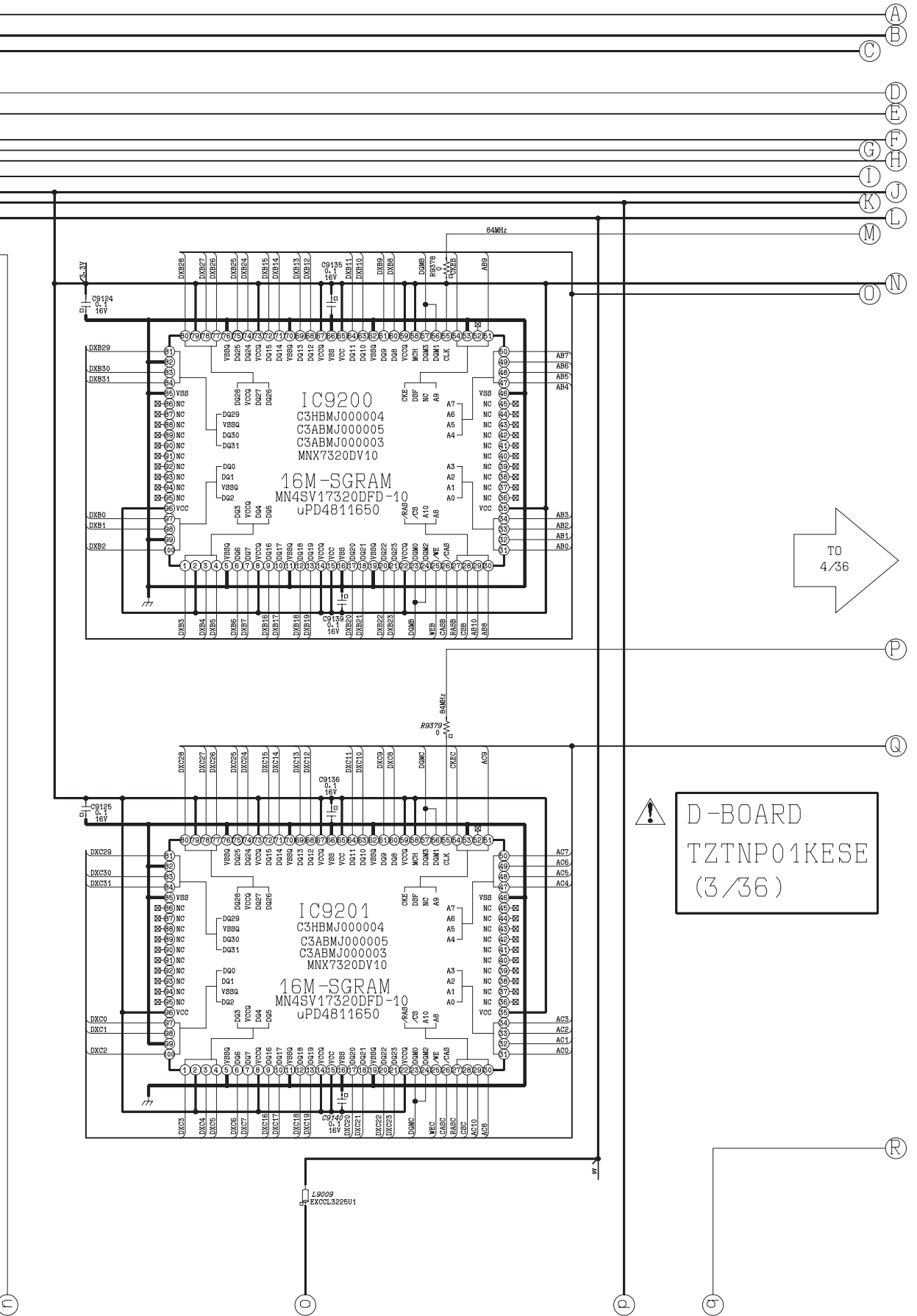
# 13.25. D-Board (2 of 36) Schematic Diagram



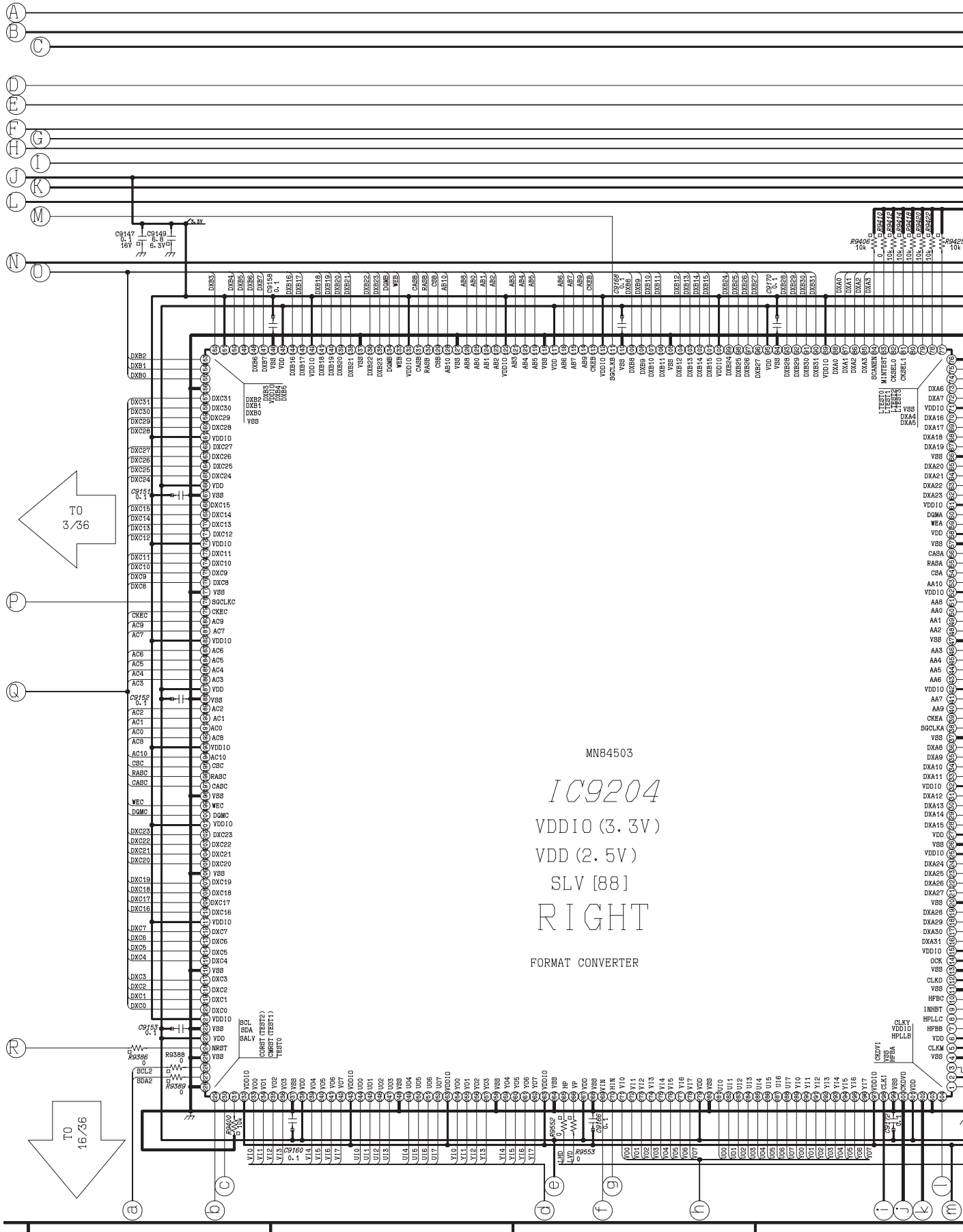

IC9908
C0DBEZG00004
C9500 0.1 16V
C9501 6.8 6.3V
C9502 0.1 16V
C9503 6.8 6.3V
R9550 1k
R9551 1k
L9903 0.33
L9900 0.33
TO 3/36
IC9900
C1ZBZ0001837
XC2S100-5PQ208C
(SPARTAN2)
DISCHARGE CONTROL
IC9909
PST9128NR
Out Vcc NC SUB GND
Q9903
2SD0601A0L
R9921 560
R9303 8.2k
R9252 0
C9087 0.1 16V
R9258 4.7k
R9261 0
R9262 10k
R9267 10k
R9966 10k
R9282 0
R9289 10k
R9967 10k
R9969 10k
C9098 16V 0.1
R9962 EXB38V103JV
R9963 EXB38V103JV
R9964 EXB38V103JV
R9965 EXB38V103JV
R9308 4.7k
R9299 4.7k
C9106 0.1 16V
C9105 16V 0.1
R9276 10k
R9277 10k
R9272 10k
C9096 0.1 16V
R9909 220
C9088 0.1 16V
R9224 0
R9225 0
R9234 0
R9231 0
TP2884
LHD
LVD
OSDD0 OSDD1 OSDD2 OSDD3 OSDCK
FPCLK FPDAT1 FPDAT0
MCVD MCHD MCCLK MCDATAO MCLD
CCLK
DIN
DSHR DSLR DMLR
DMHR DSLL DSHL DMLL DMHL
SDRST AUP LATCH SFDA
HZ PCU BLKU LEU
BLKD LED PCD
INIT
DONE
UBK
TP350 TP351 TP352 TP353 TP354 TP355
TP361 TP362 TP363 TP364 TP365 TP366
TP244 TP238 TP248 TP251 TP253 TP256
CBK HZ CEL CSL CSH CML
CMH CL CLK SIU SID SCSU CPL CPH
RES UEH USLU USHU UMLU UMHU UE2H
LDLY RDLY RIGHT_VD V_PHASE DET COMP AORD GND VCCO VCCINT HD HDP VD HSD VSD VMASK HP VP NO_SYNC CLK20M_OUT IO OSDIN0 OSDIN1 OSDIN2 OSDIN3 OSDIN4 OSDIN5 OSDIN6 OSDIN7 HS VS CLPI CLPO CLPPH0 CLPPH1 CLPPH2 M1
STATUS TOUKA LSI33_VMASK DRVRST DRIVER_MUTE GCK1 CLKM GCK0 OCK CBY UEH CGL USL USH UML
IO/IRDY IO/TRDY XSYSRST
A B C D E F G H I J K L M N O P Q
r s t u v
11 12 13 14

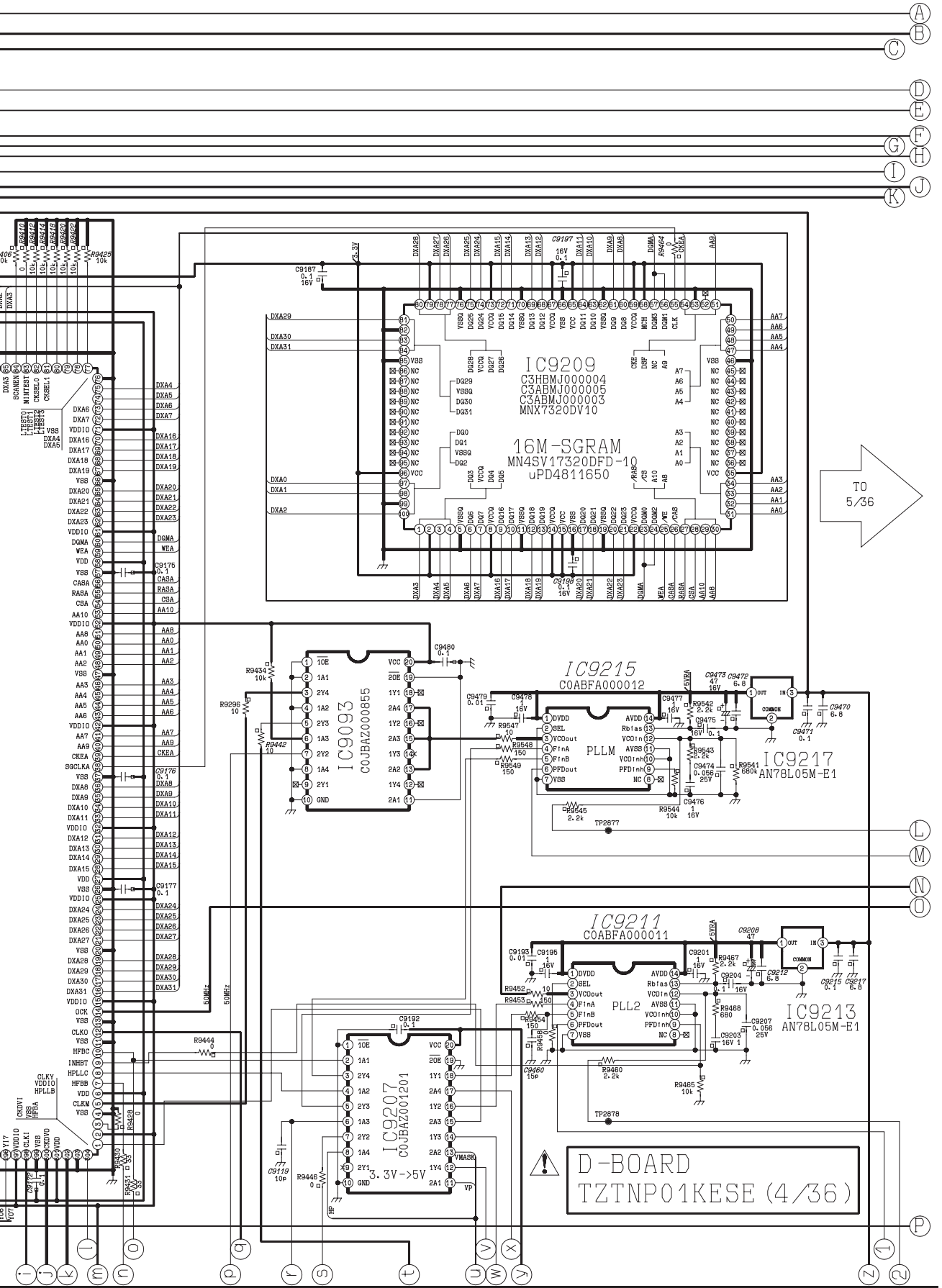
# 13.26. D-Board (3 of 36) Schematic Diagram



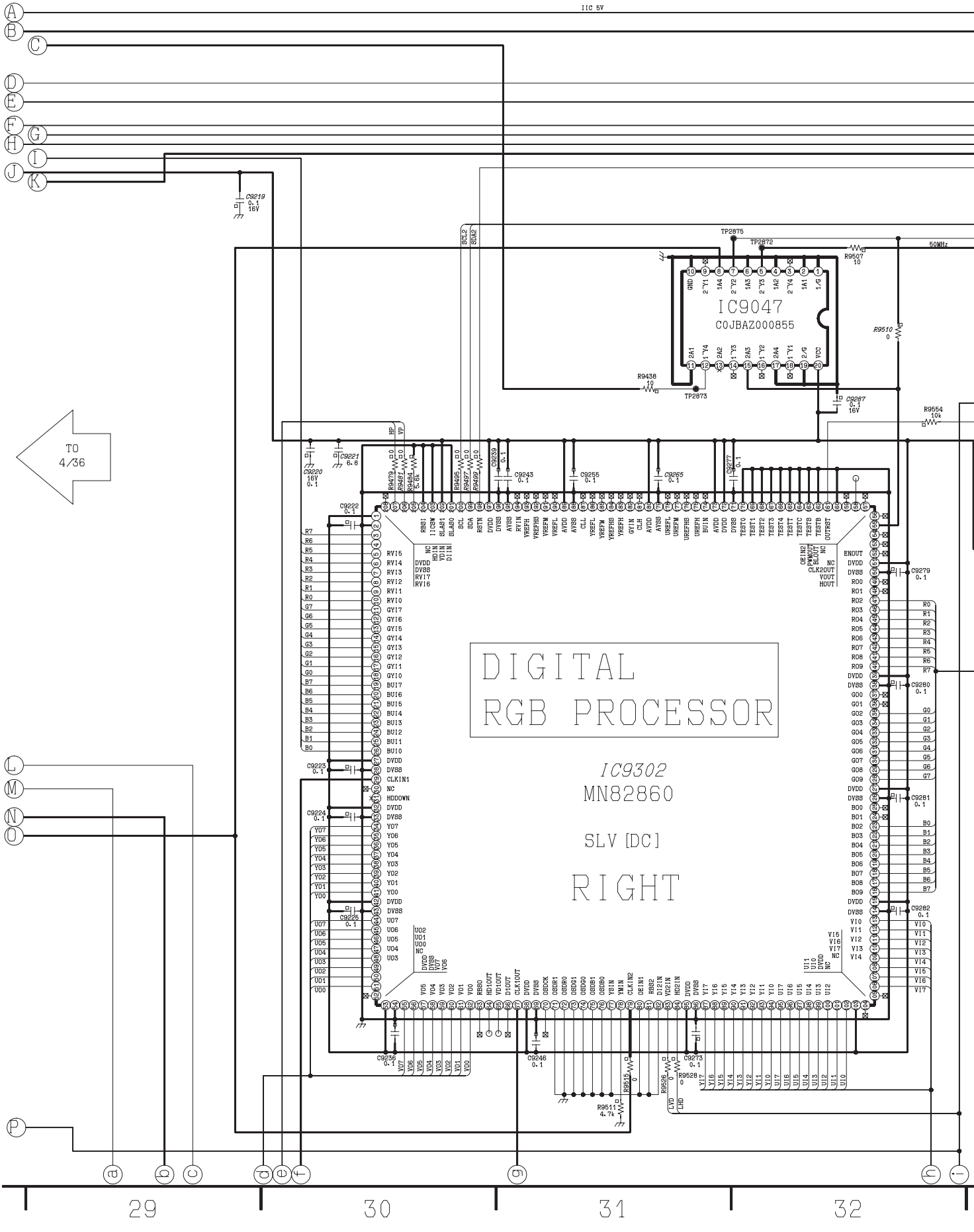

IC9200
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
IC9201
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
84MHz
TO
4/36
D-BOARD
TZTNP01KESE
(3/36)
19
20
21

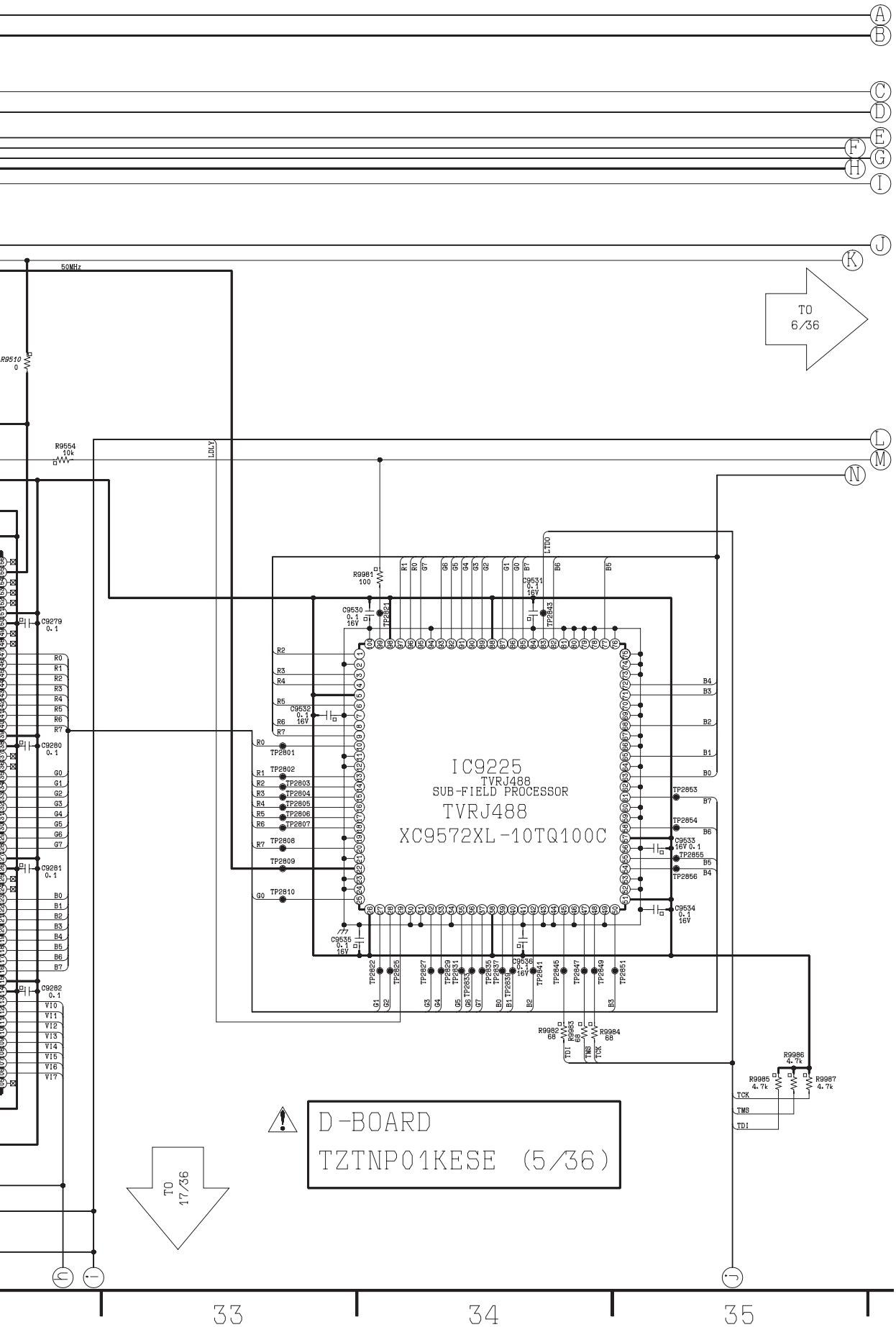
# 13.27. D-Board (4 of 36) Schematic Diagram



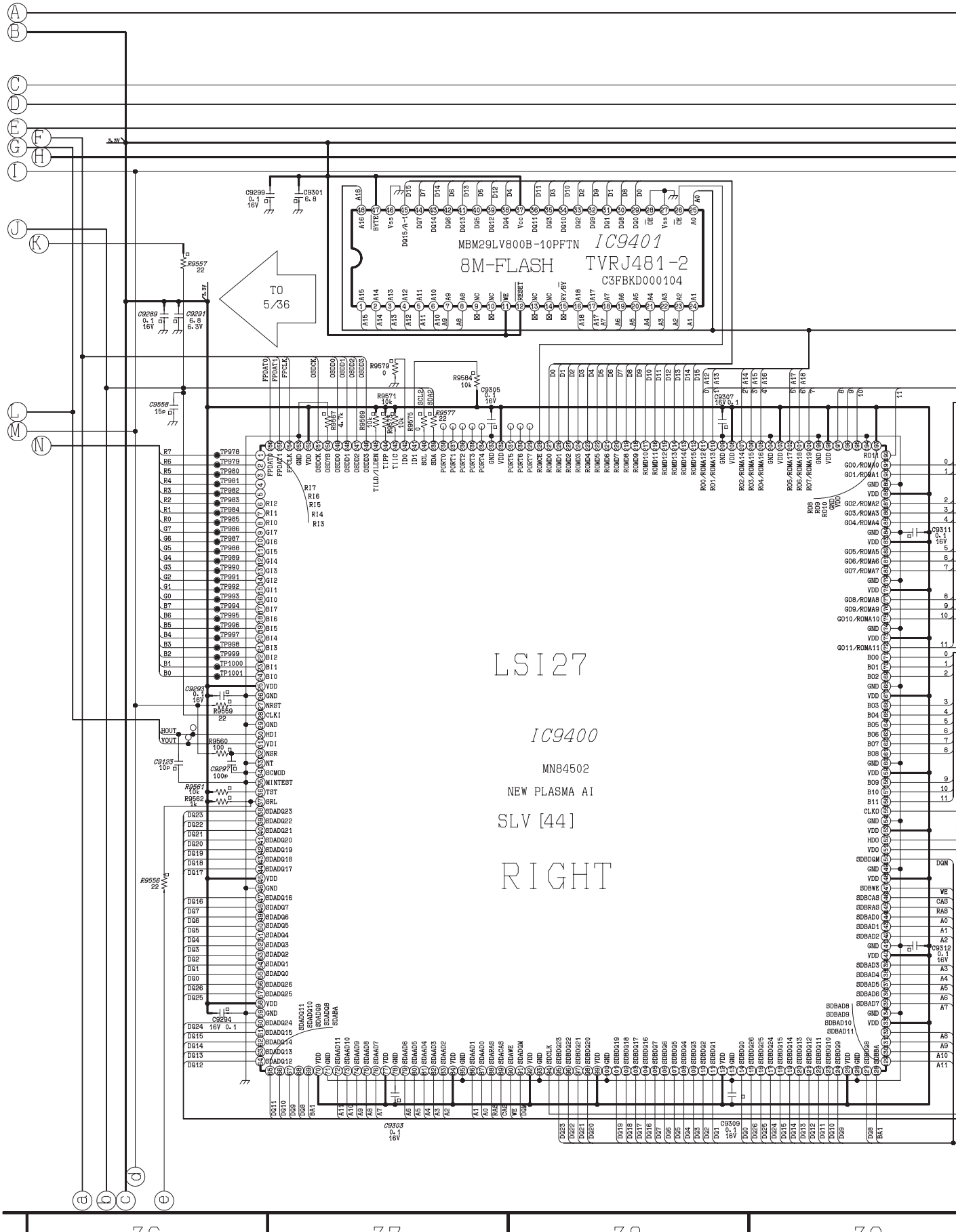

IC9209
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
IC9093
C0JBAZ000855
IC9215
C0ABFA000012
PLLM
IC9217
AN78L05M-E1
IC9211
C0ABFA000011
PLL2
IC9213
AN78L05M-E1
IC9207
C0JBAZ001201
3.3V->5V
TO
5/36
D-BOARD
TZTNP01KESE (4/36)
25
26
27
28

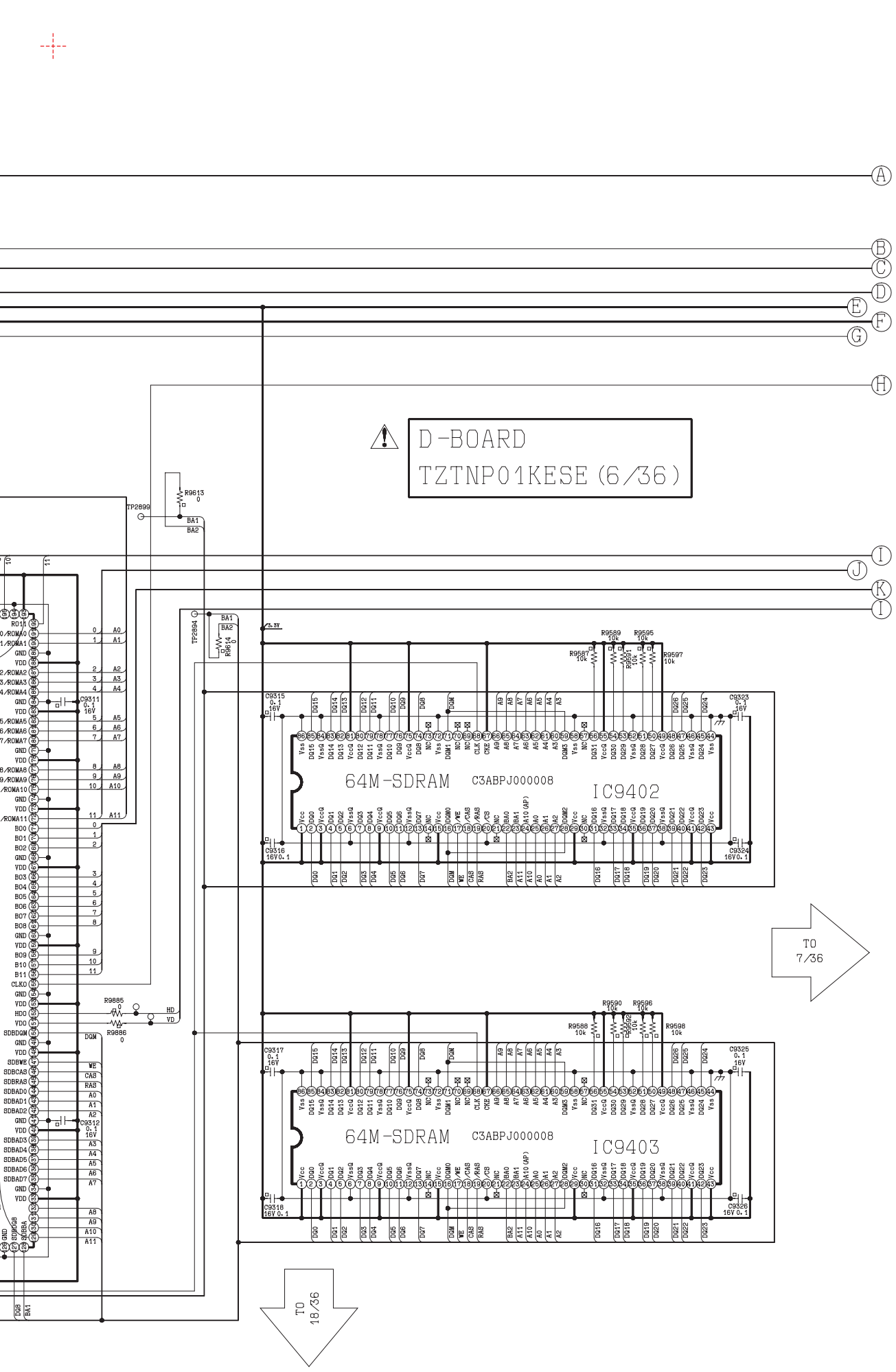
# 13.28. D-Board (5 of 36) Schematic Diagram



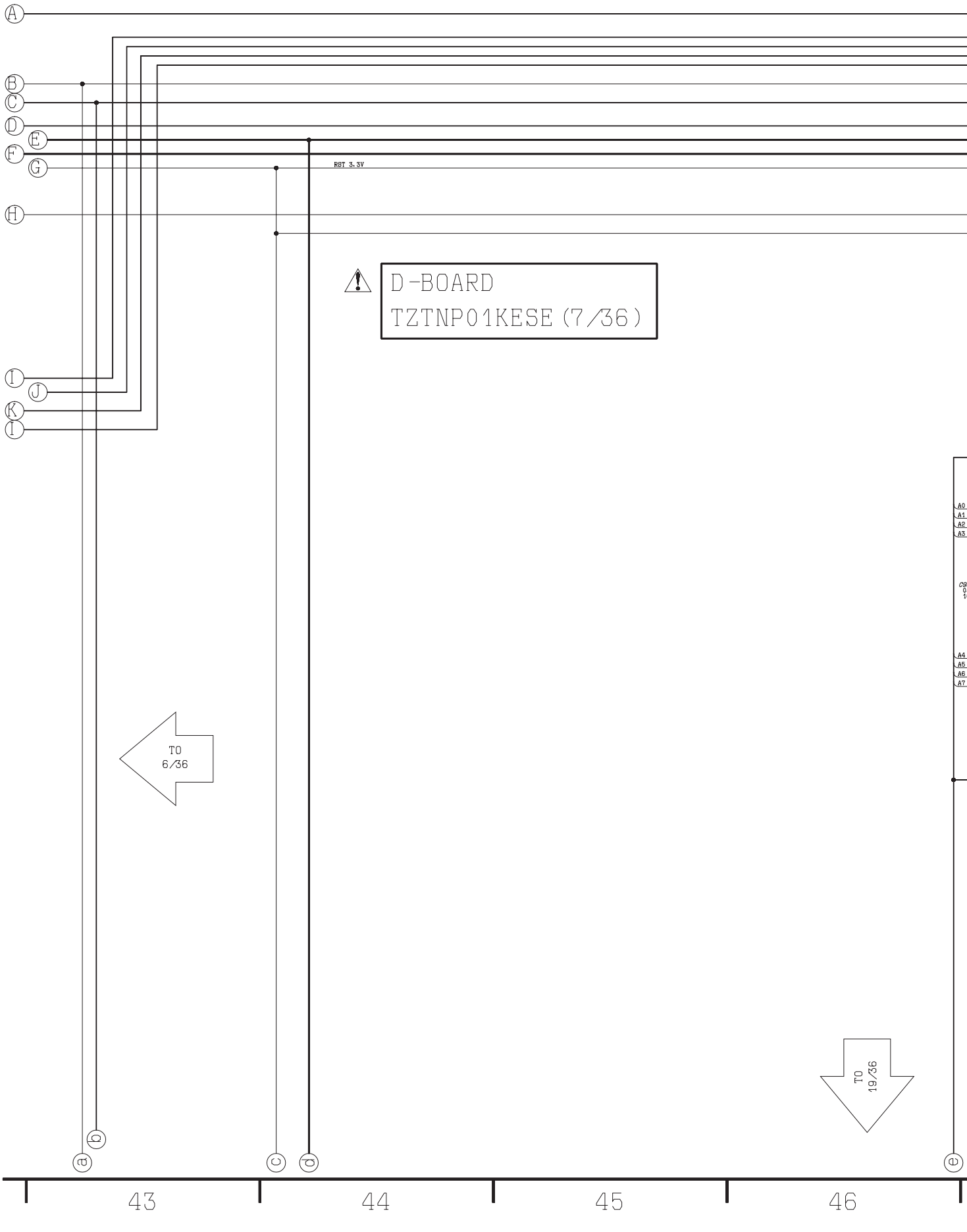

IC9225
TVRJ488
SUB-FIELD PROCESSOR
TVRJ488
XC9572XL-10TQ100C
D-BOARD
TZTNP01KESE (5/36)
TO 6/36
TO 17/36
50MHz
LDLY
LTDO
TCK
TMS
TDI
33
34
35

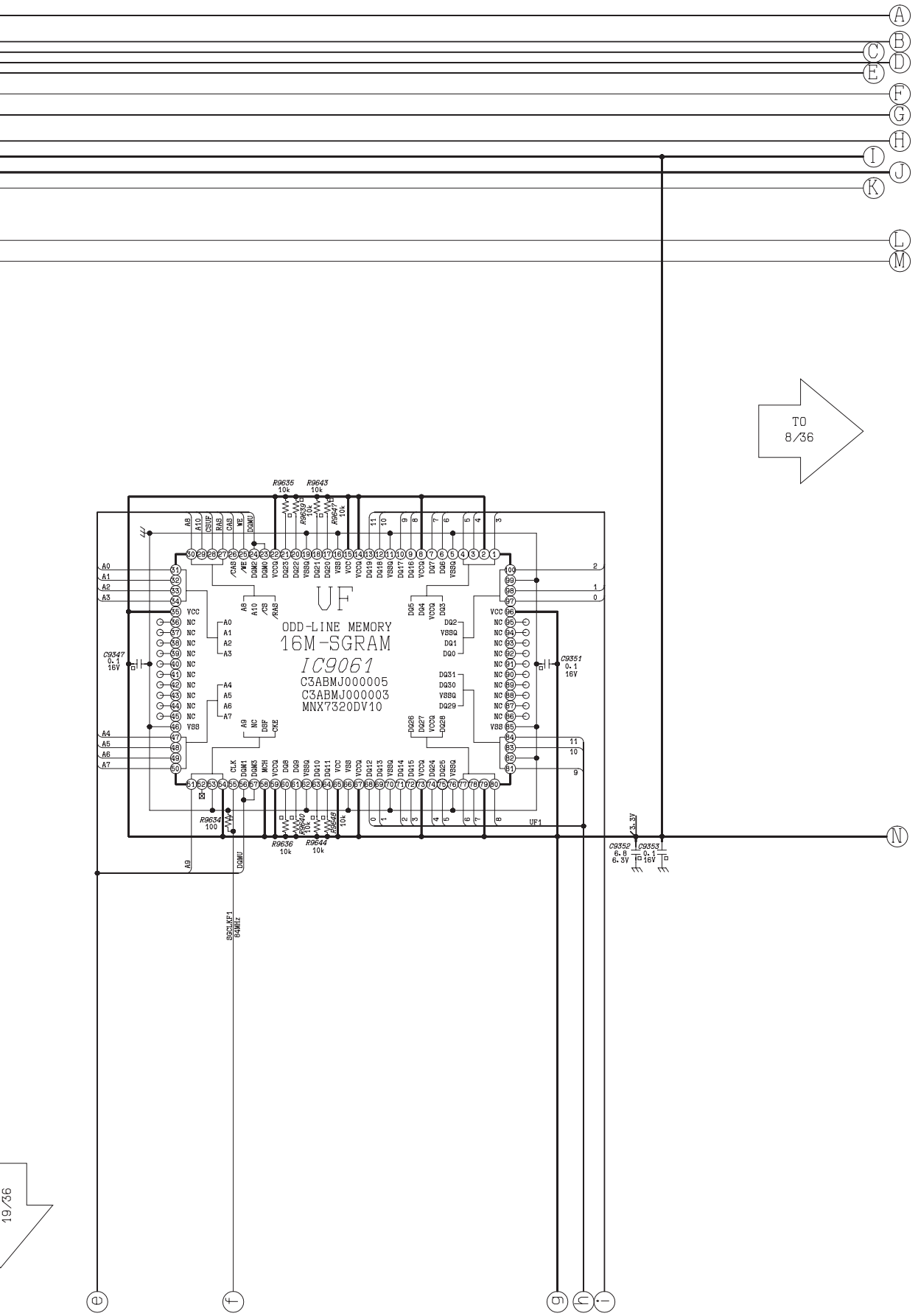
# 13.29. D-Board (6 of 36) Schematic Diagram



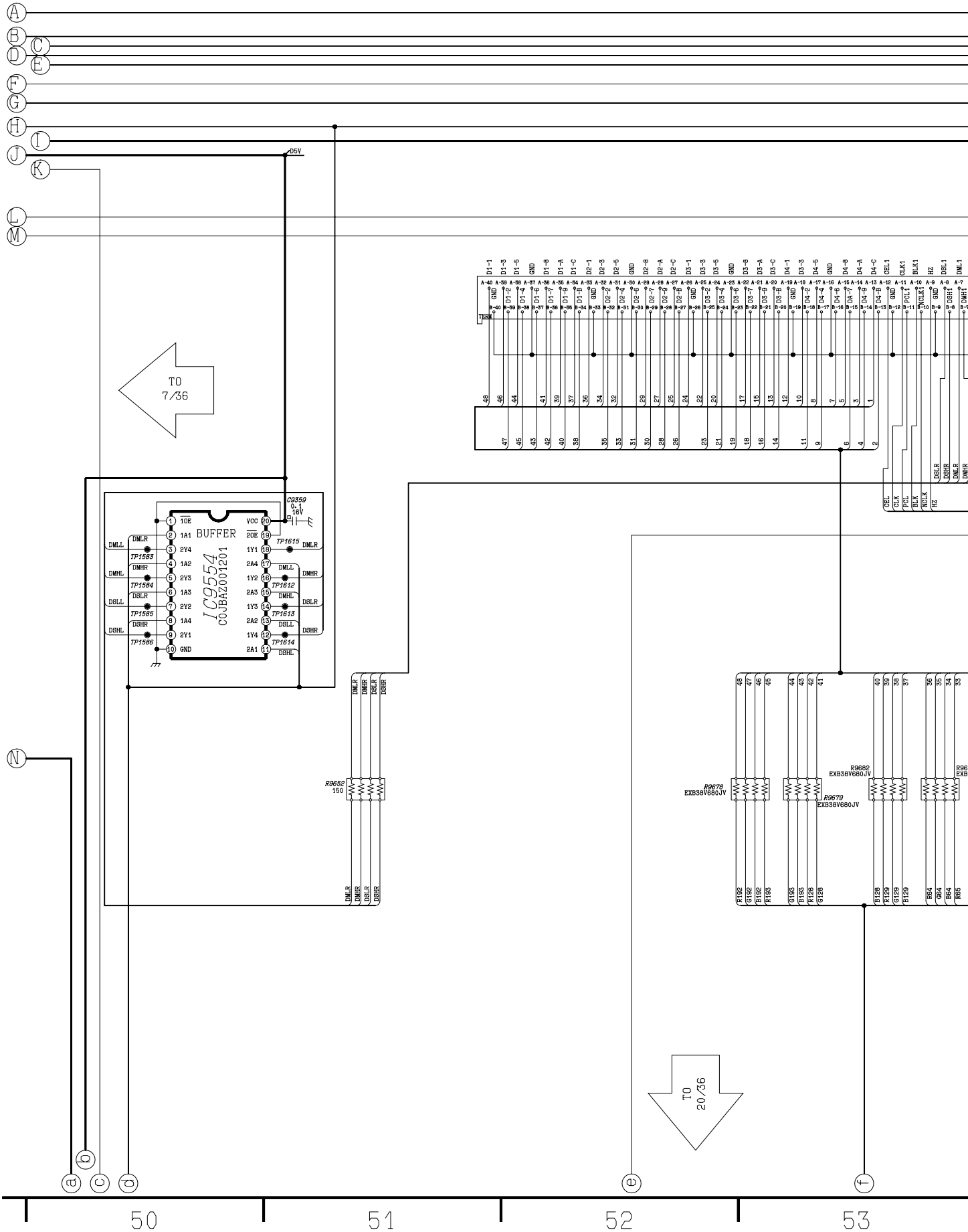

D-BOARD
TZTNP01KESE (6/36)
64M-SDRAM C3ABPJ000008
IC9402
64M-SDRAM C3ABPJ000008
IC9403
TO 7/36
TO 18/36

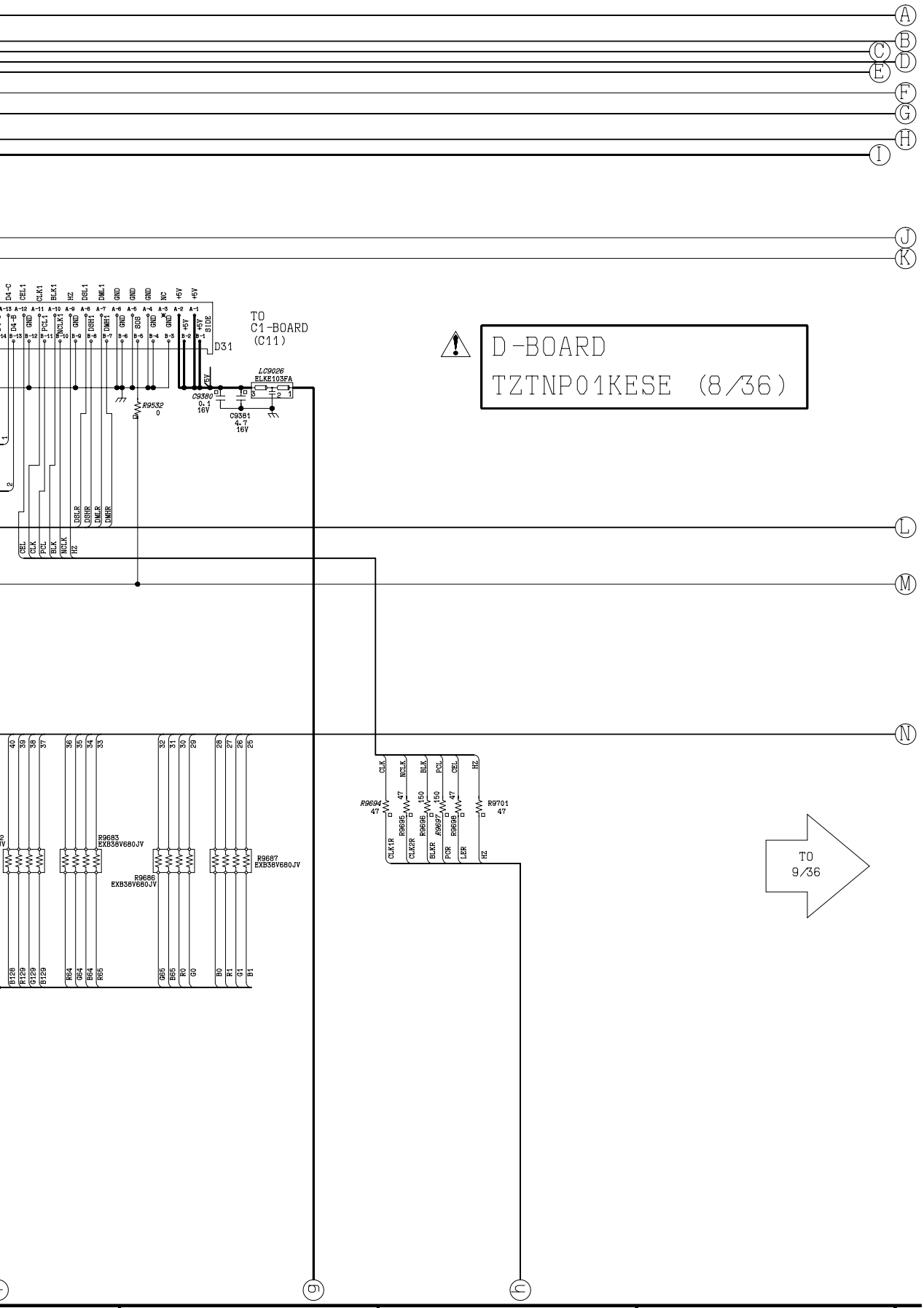
## 13.30. D-Board (7 of 36) Schematic Diagram



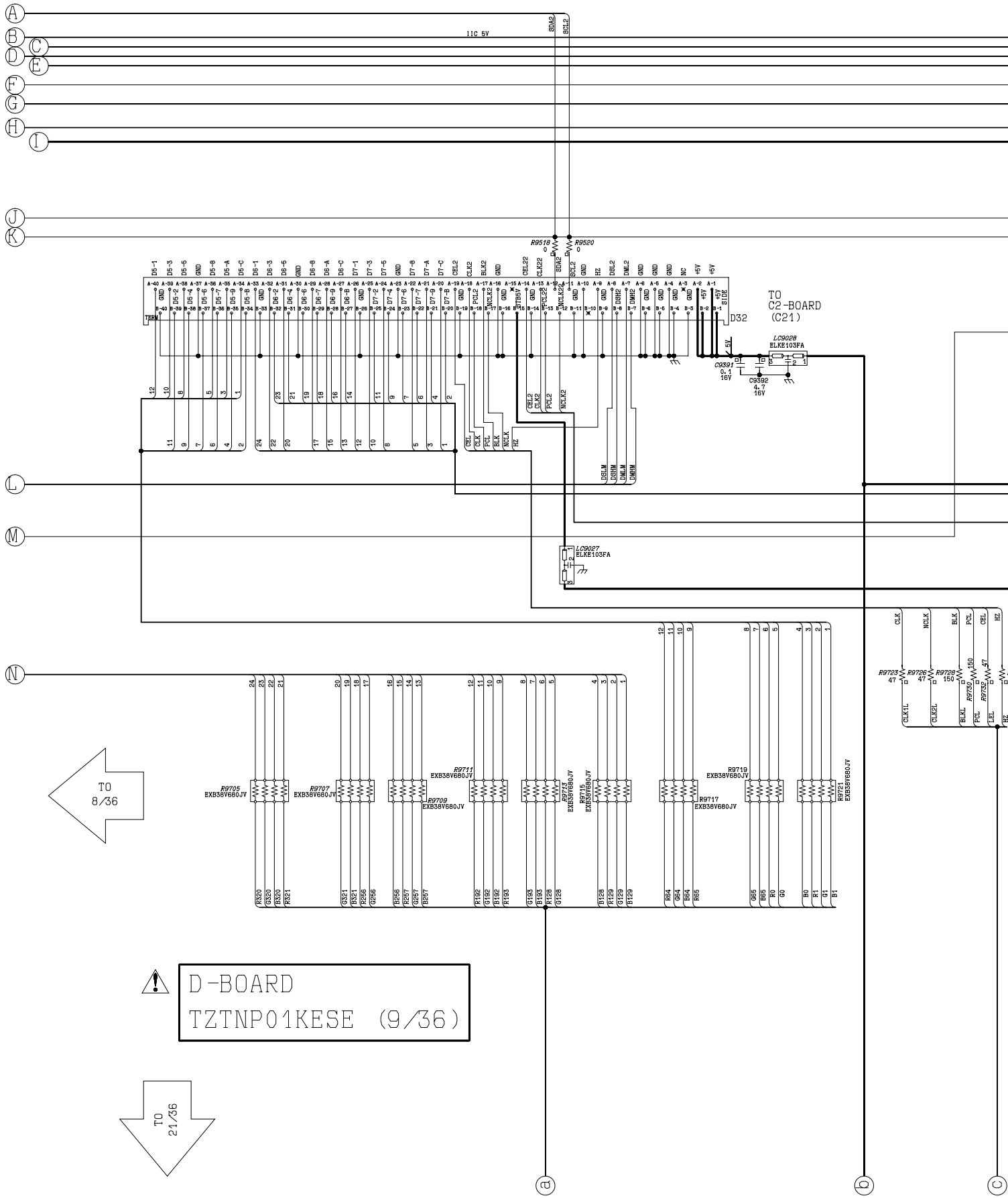

TO
8/36
UF
ODD-LINE MEMORY
16M-SGRAM
IC9061
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
R9635
10k
R9643
10k
R9634
100
R9636
10k
R9644
10k
C9347
0.1
16V
C9351
0.1
16V
C9352
6.8
6.3V
C9353
0.1
16V
3.3V
UF1
19/36
47
48
49

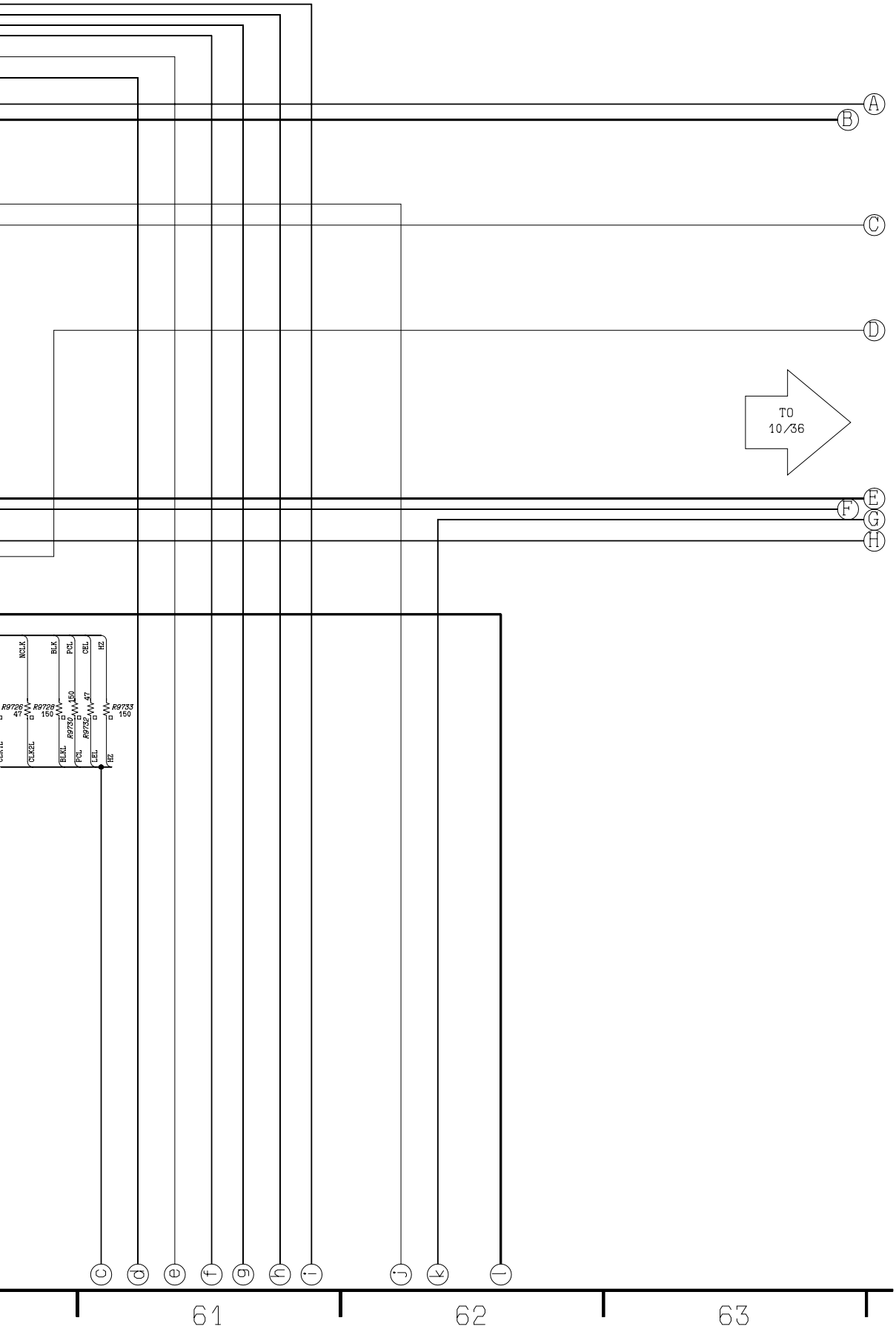
# 13.31. D-Board (8 of 36) Schematic Diagram



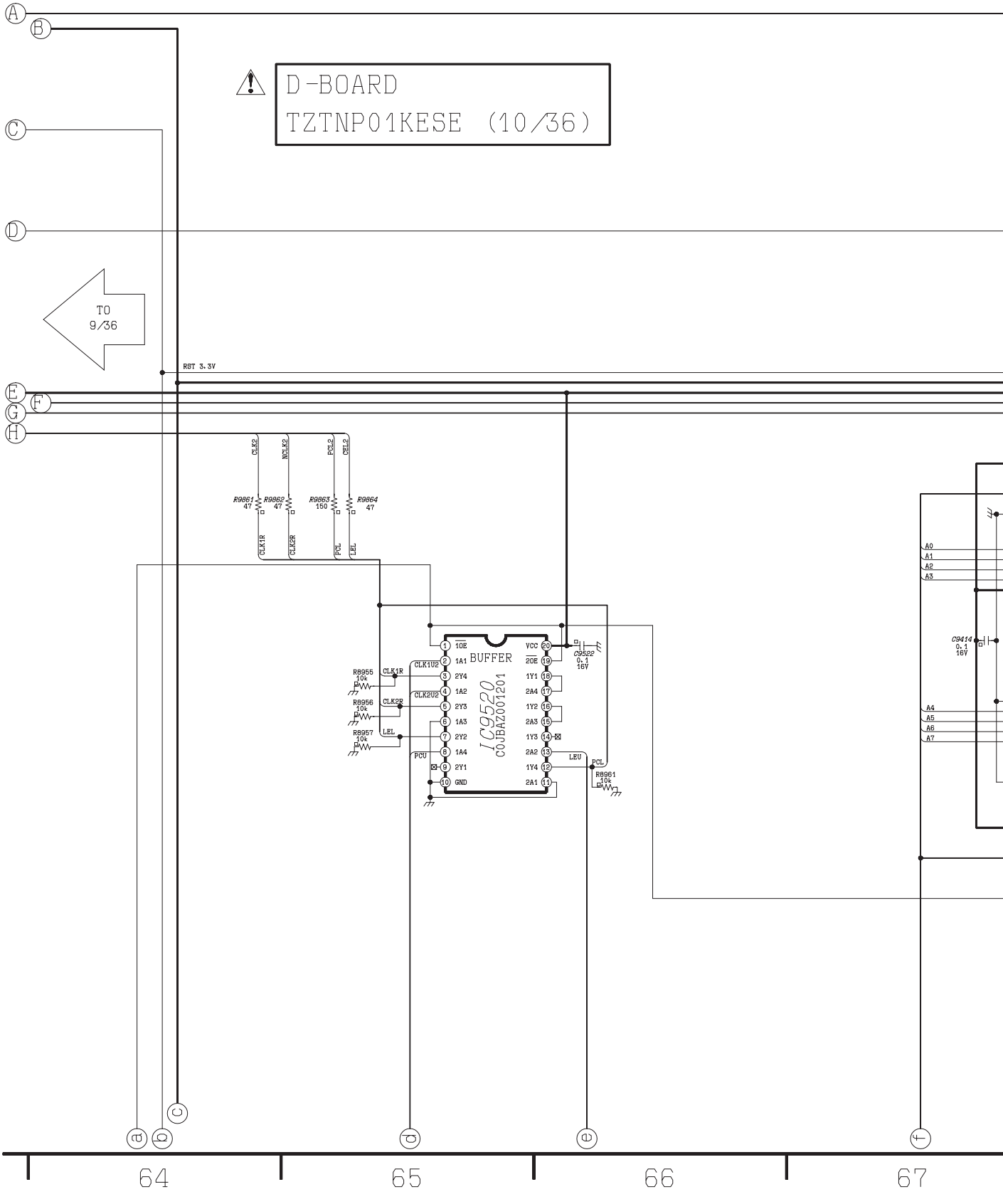

A
B
C
D
E
F
G
H
I
J
K
L
M
N
TO
C1-BOARD
(C11)
D31
D-BOARD
TZTNP01KESE (8/36)
LC9026
BLKE103FA
C9380
0.1
16V
C9381
4.7
16V
R9532
0
R9693
EXB38V680JV
R9686
EXB38V680JV
R9687
EXB38V680JV
R9694
47
R9695
47
R9696
150
R9697
150
R9698
47
R9701
47
TO
9/36
54
55
56

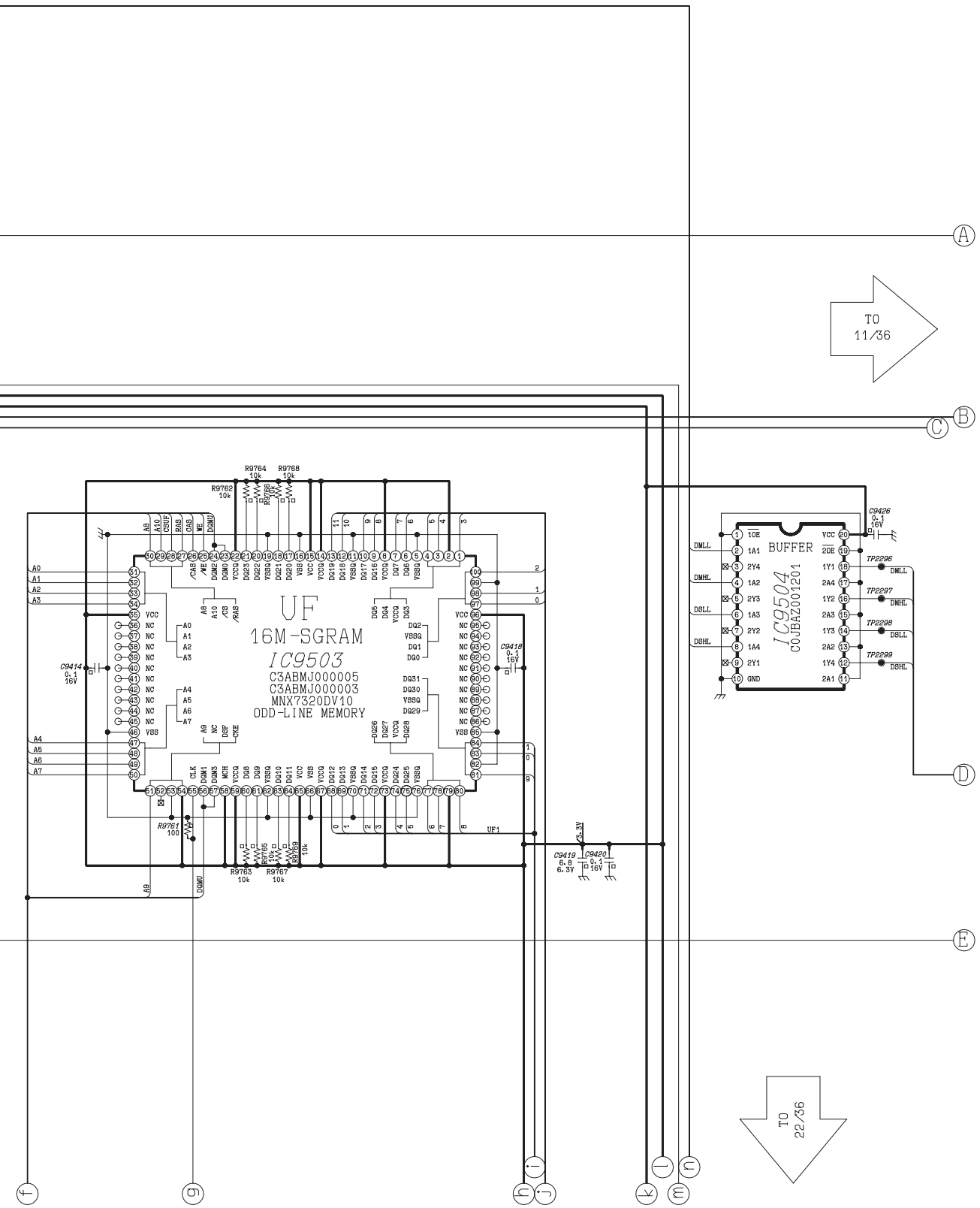
## 13.32. D-Board (9 of 36) Schematic Diagram



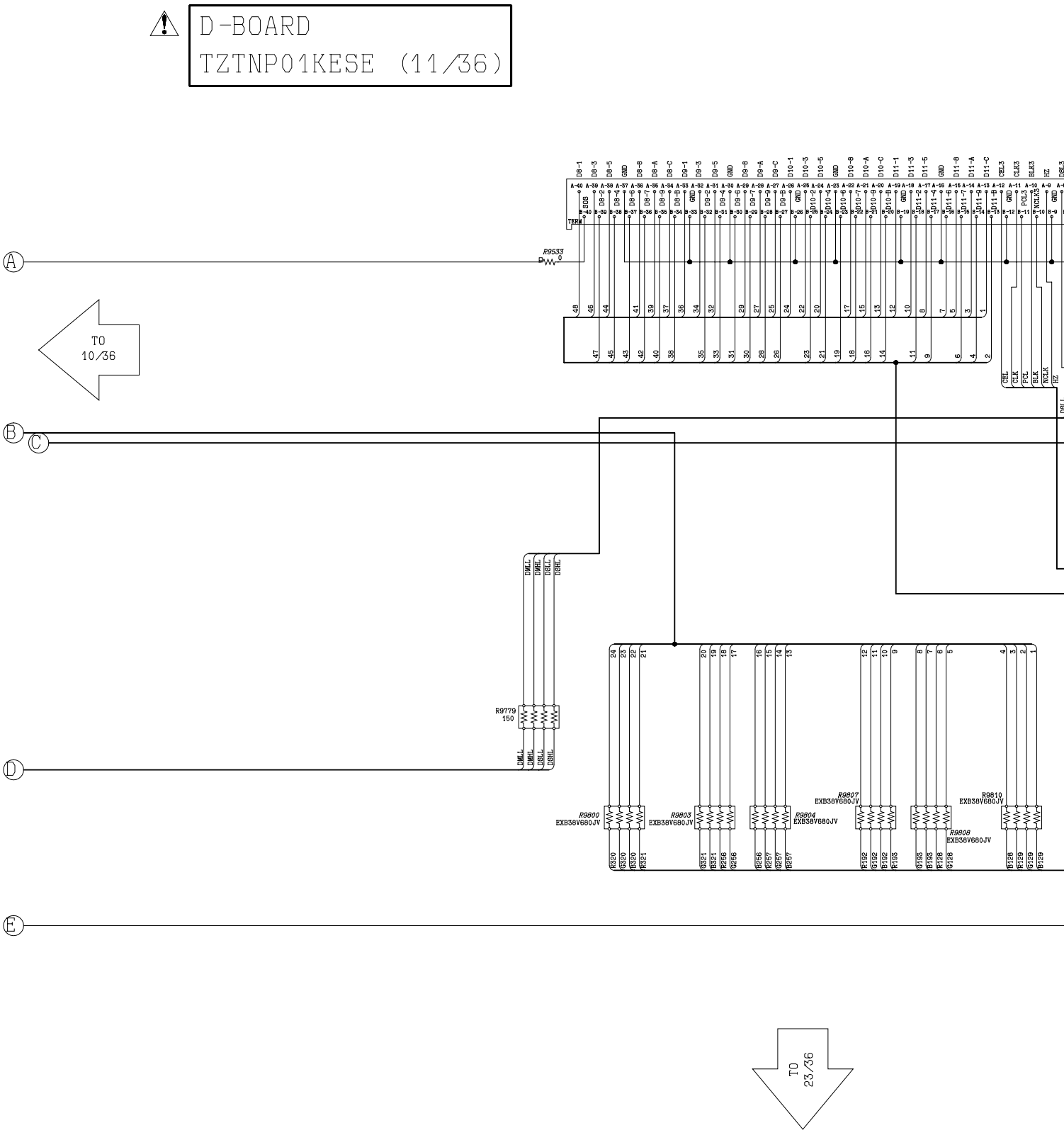

A
B
C
D
TO
10/36
E
F
G
H
NCLK
BLK
PCL
CEL
HZ
R9726
47
R9728
150
R9730
150
R9732
47
R9733
150
CLKEL
BLKL
PCL
CEL
HZ
c
d
e
f
g
h
i
j
k
61
62
63

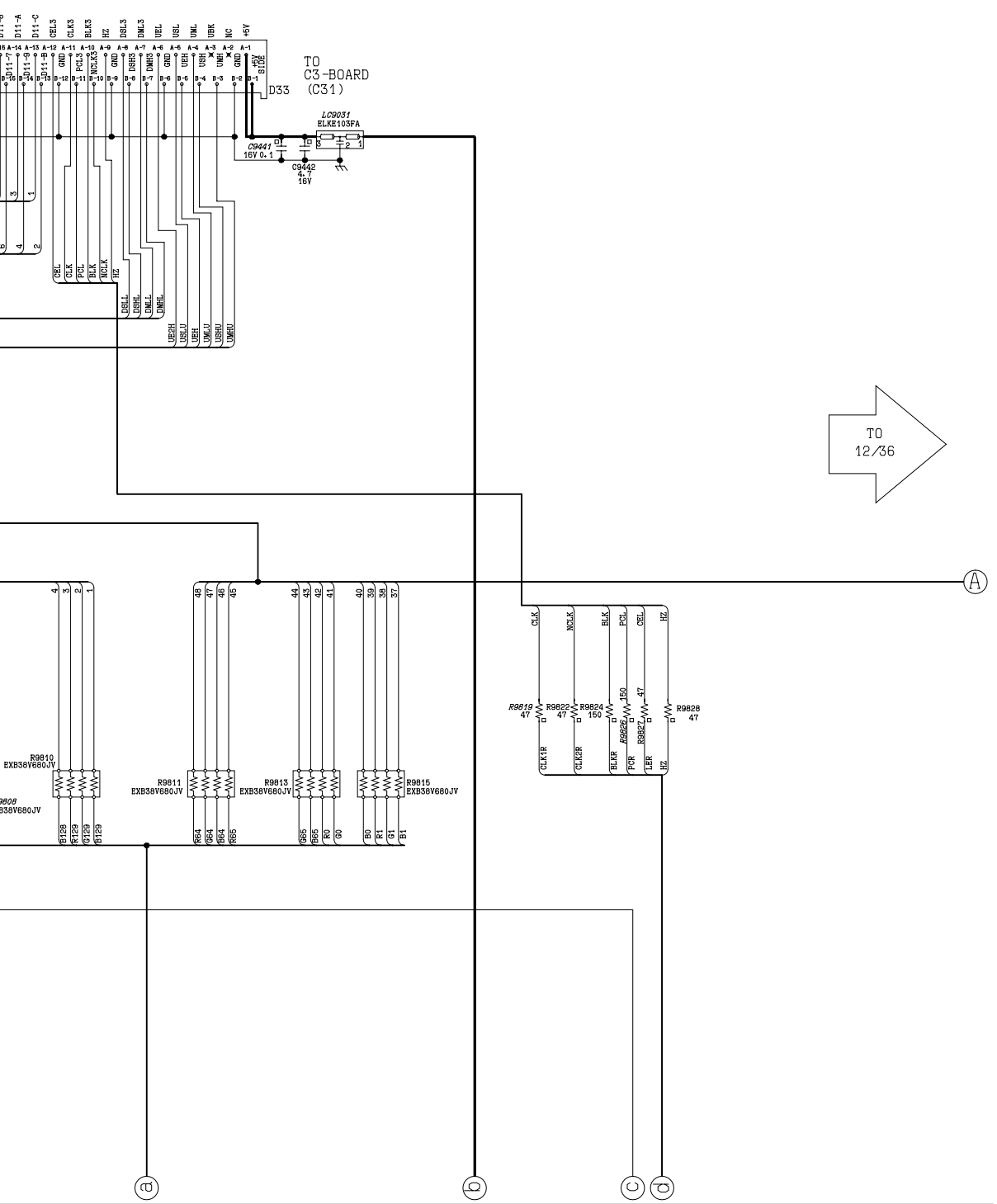
## 13.33. D-Board (10 of 36) Schematic Diagram




TO
11/36
TO
22/36
UF
16M-SGRAM
IC9503
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
ODD-LINE MEMORY
BUFFER
IC9504
C0JBAZ001201
R9764
10k
R9768
10k
R9762
10k
R9766
10k
R9761
100
R9765
10k
R9769
10k
R9763
10k
R9767
10k
C9414
0.1
16V
C9418
0.1
16V
C9419
6.8
6.3V
C9420
0.1
16V
C9426
0.1
16V
TP2296
TP2297
TP2298
TP2299
DMLL
DMHL
DSLL
DSHL
VF1
A
B
C
D
E
f
g
h
i
j
k
l
m
n
67
68
69
70

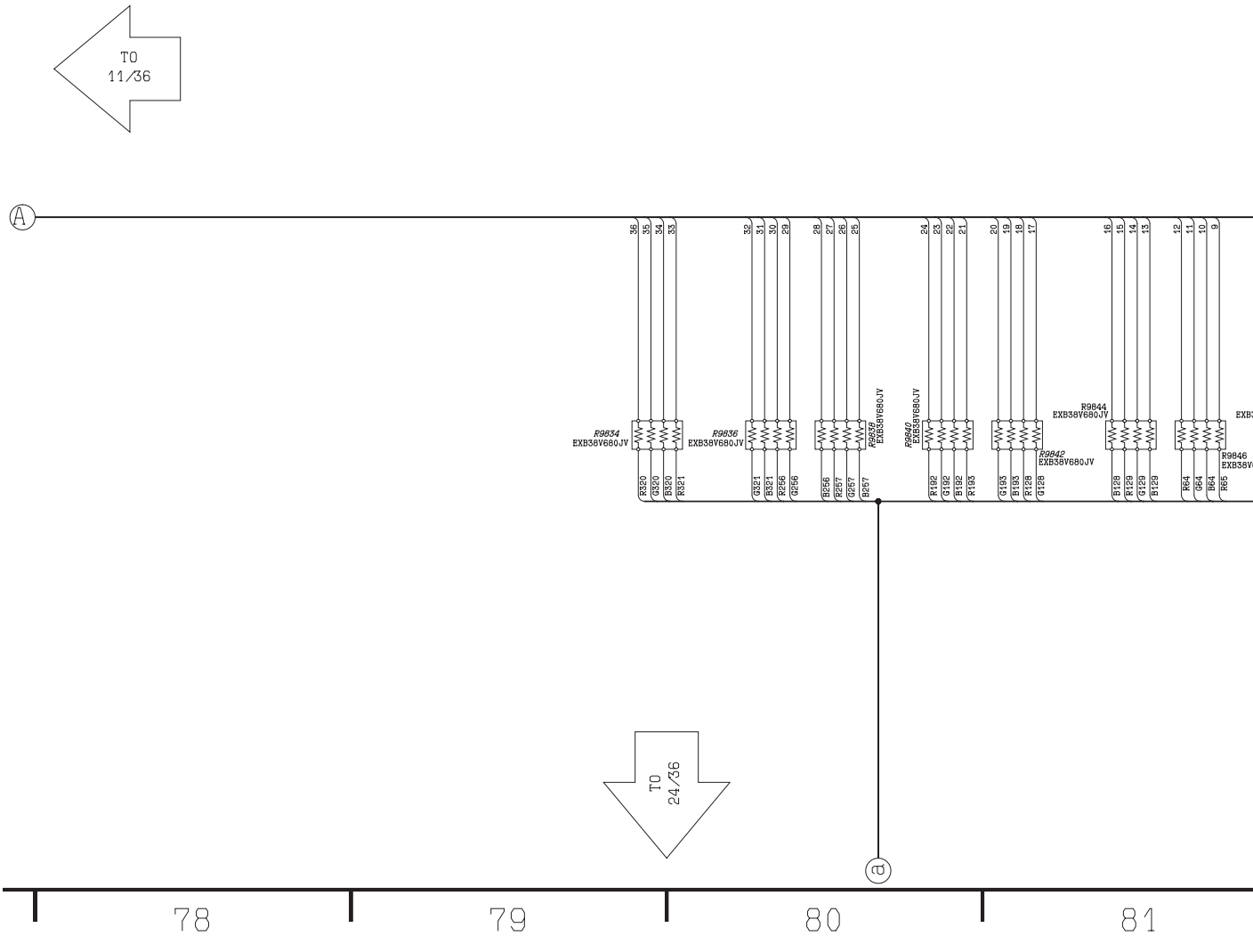
## 13.34. D-Board (11 of 36) Schematic Diagram

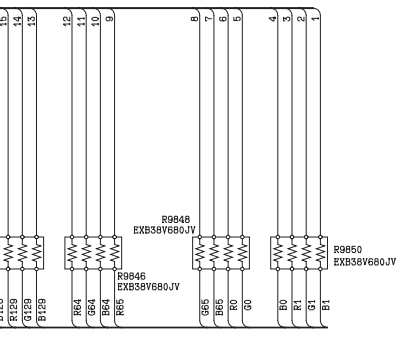



TO
C3-BOARD
(C31)
D33
LC9031
ELKE103FA
C9441
16V 0.1
C9442
4.7
16V
TO
12/36
R9810
EXB38V680JV
R9811
EXB38V680JV
R9813
EXB38V680JV
R9815
EXB38V680JV
R9819
47
R9822
47
R9824
150
R9826
150
R9827
47
R9828
47
A
a
b
c
d
75
76
77

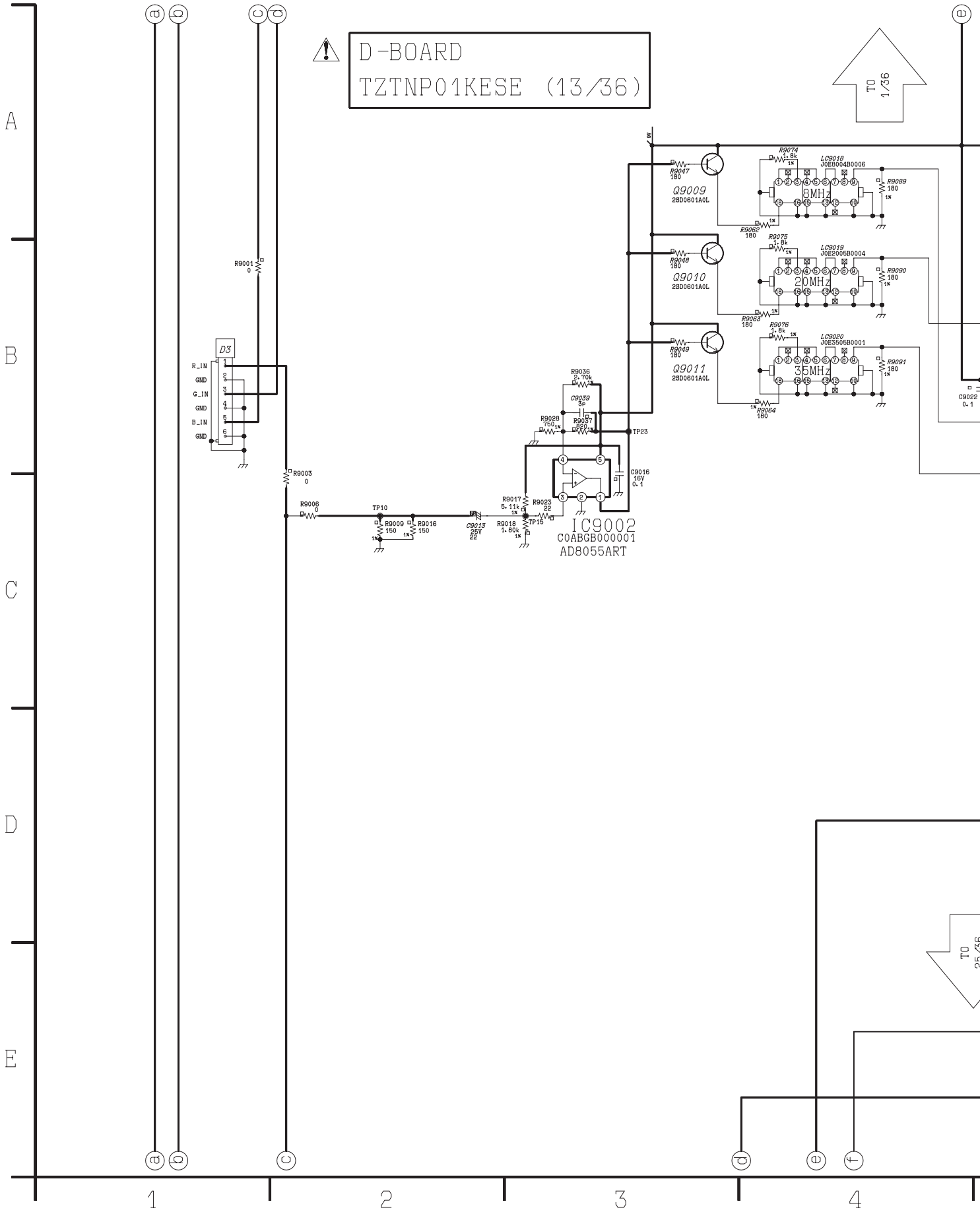
## 13.35. D-Board (12 of 36) Schematic Diagram

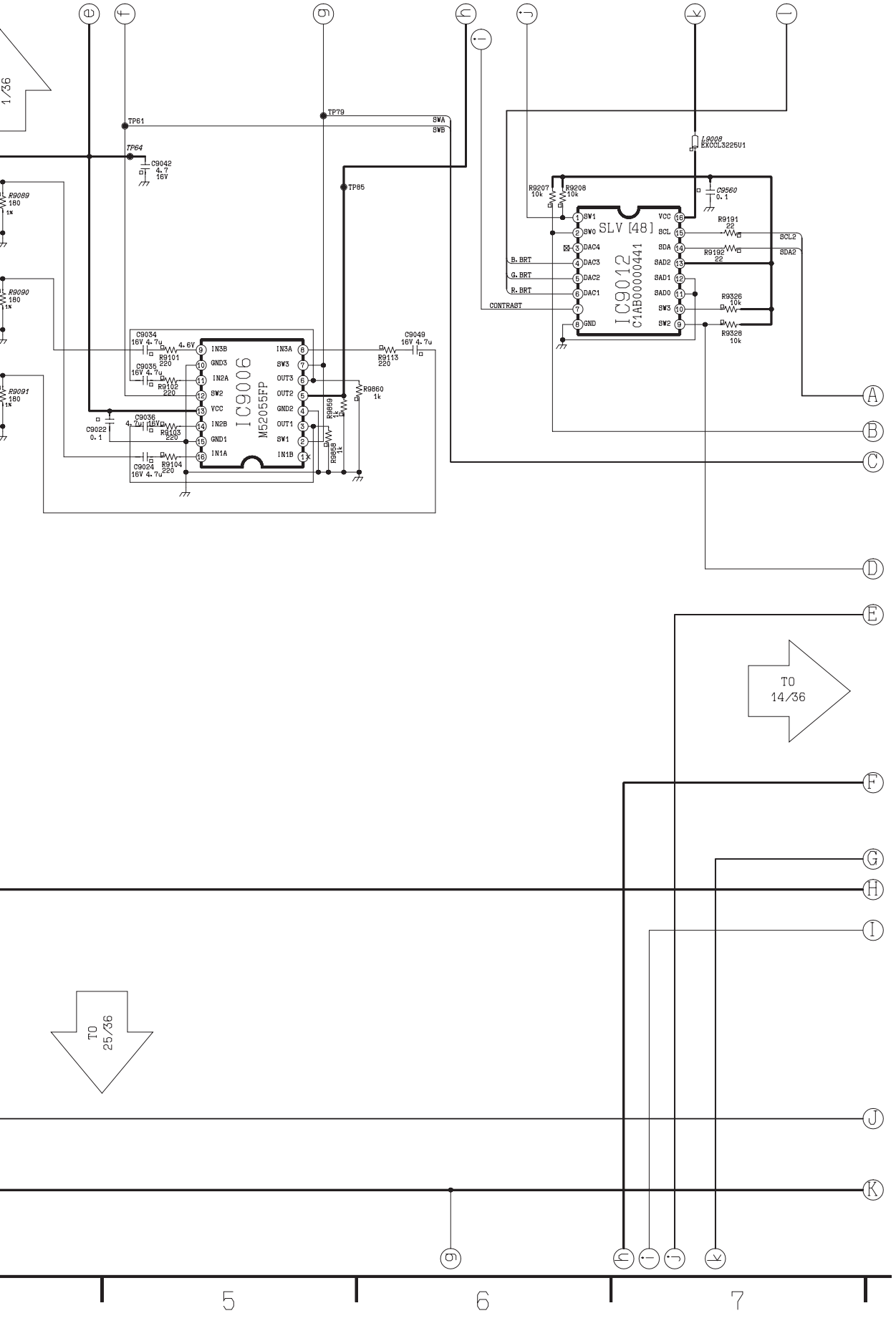
D-BOARD
TZTNP01KESE (12/36)



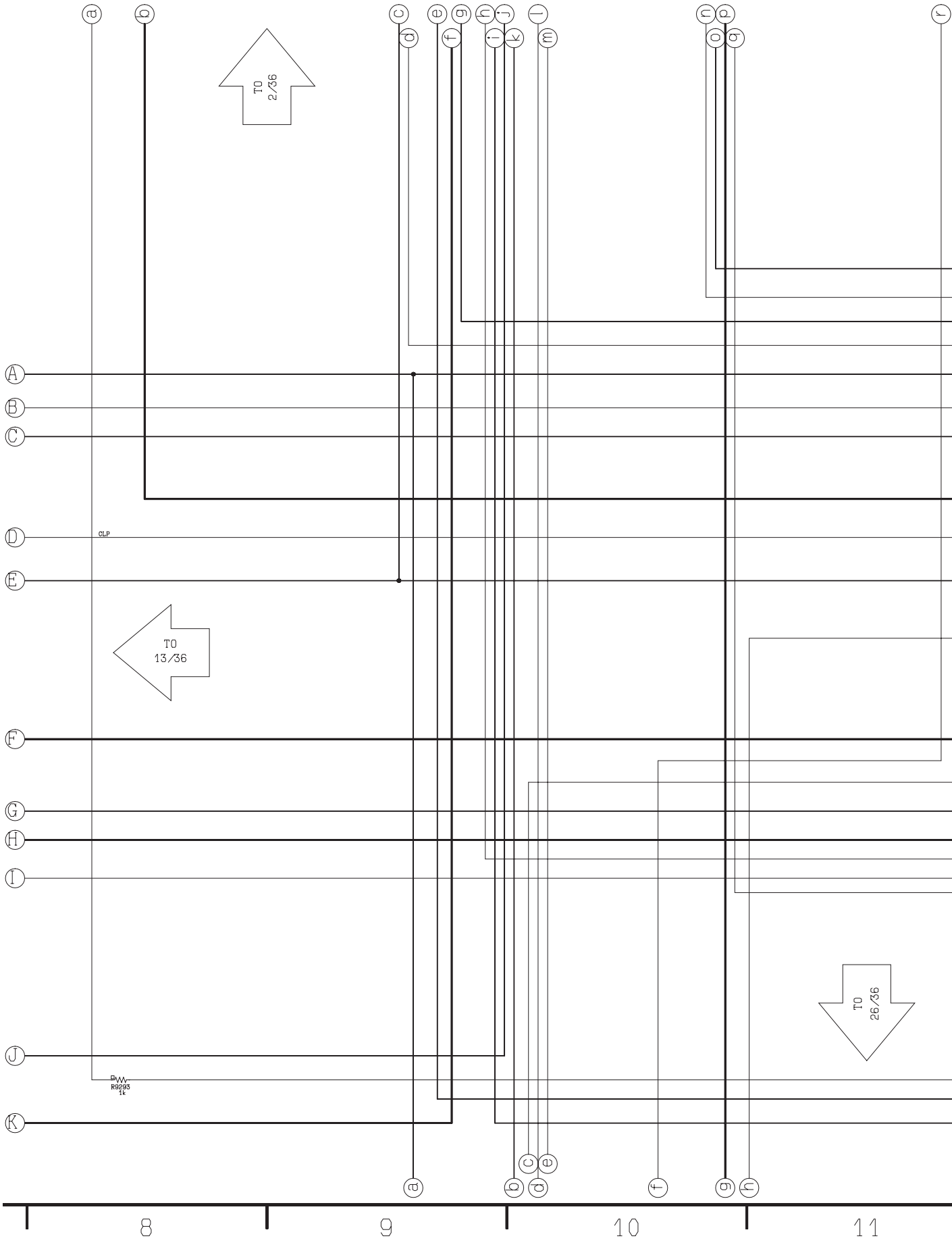

15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
R9848
EXB38V680JV
R9850
EXB38V680JV
R9846
EXB38V680JV
R64
G64
B64
R65
G65
B65
R0
G0
B0
R1
G1
B1

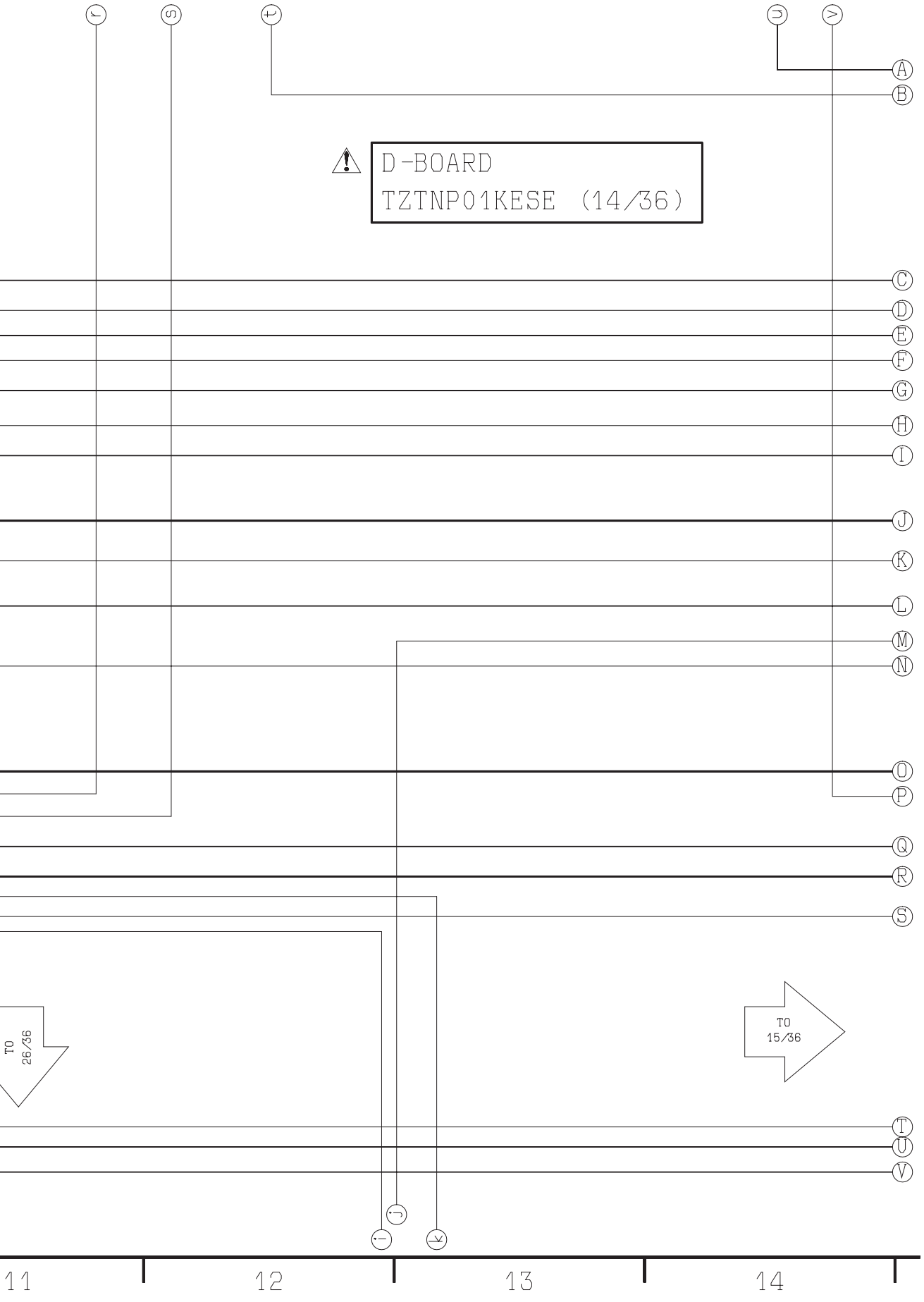
## 13.36. D-Board (13 of 36) Schematic Diagram



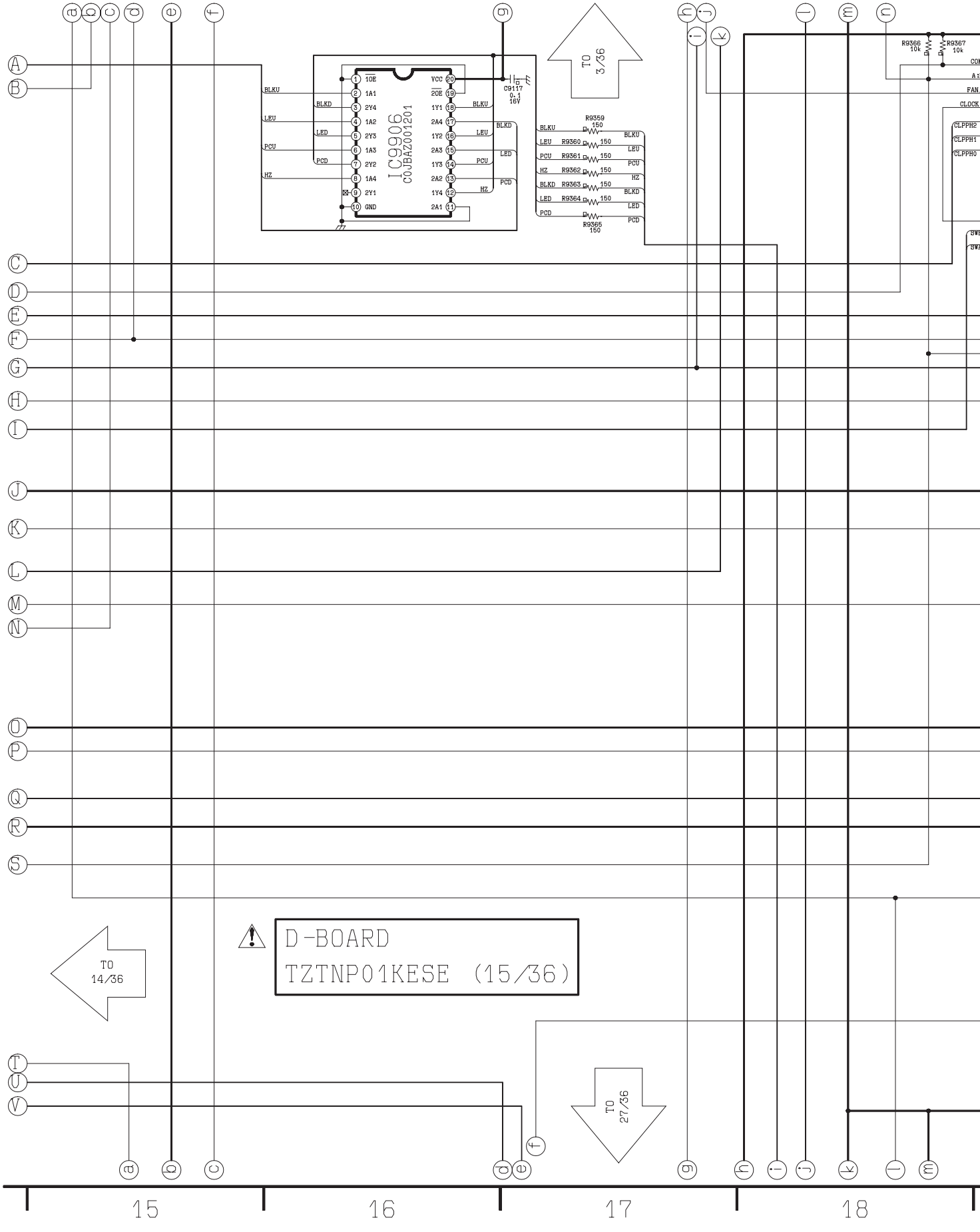

TP61
TP64
TP79
TP85
SWA
SWB
C9042
4.7
16V
R9089
180
1%
R9090
180
1%
R9091
180
1%
C9034
16V 4.7u
4.6V
R9101
220
C9035
16V 4.7u
R9102
220
C9036
4.7u 16V
R9103
220
C9024
16V 4.7u
R9104
220
C9022
0.1
IC9006
M52055FP
IN3B
GND3
IN2A
SW2
VCC
IN2B
GND1
IN1A
IN3A
SW3
OUT3
OUT2
GND2
OUT1
SW1
IN1B
C9049
16V 4.7u
R9113
220
R9860
1k
R9859
1k
R9858
1k
L9008
EXCCL3225U1
C9560
0.1
R9207
10k
R9208
10k
IC9012
C1AB00000441
SLV (48)
SW1
SW0
DAC4
DAC3
DAC2
DAC1
GND
VCC
SCL
SDA
SAD2
SAD1
SAD0
SW3
SW2
B. BRT
G. BRT
R. BRT
CONTRAST
R9191
22
R9192
22
SCL2
SDA2
R9328
10k
R9328
10k
TO
14/36
TO
25/36
A
B
C
D
E
F
G
H
I
J
K
5
6
7

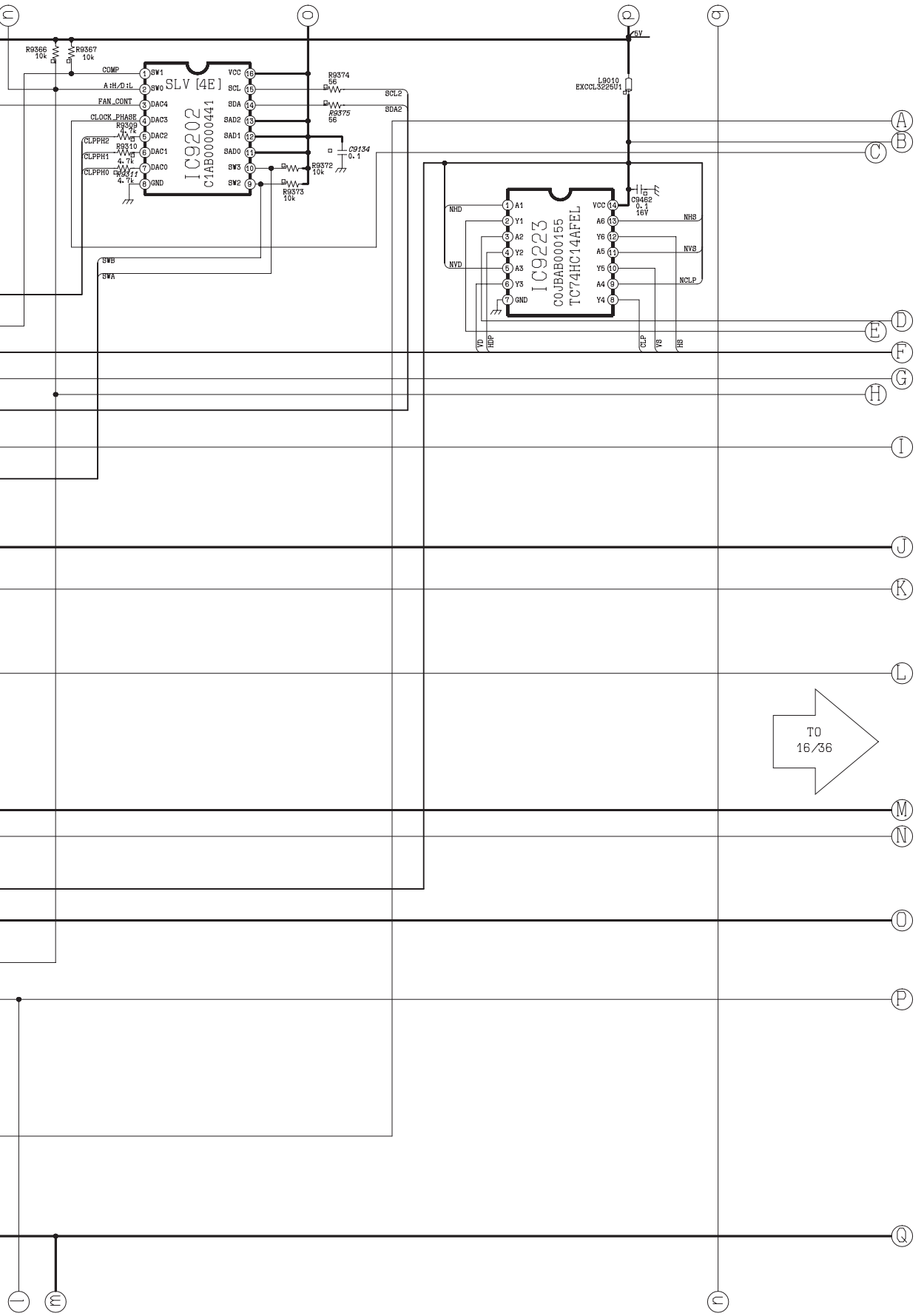
## 13.37. D-Board (14 of 36) Schematic Diagram



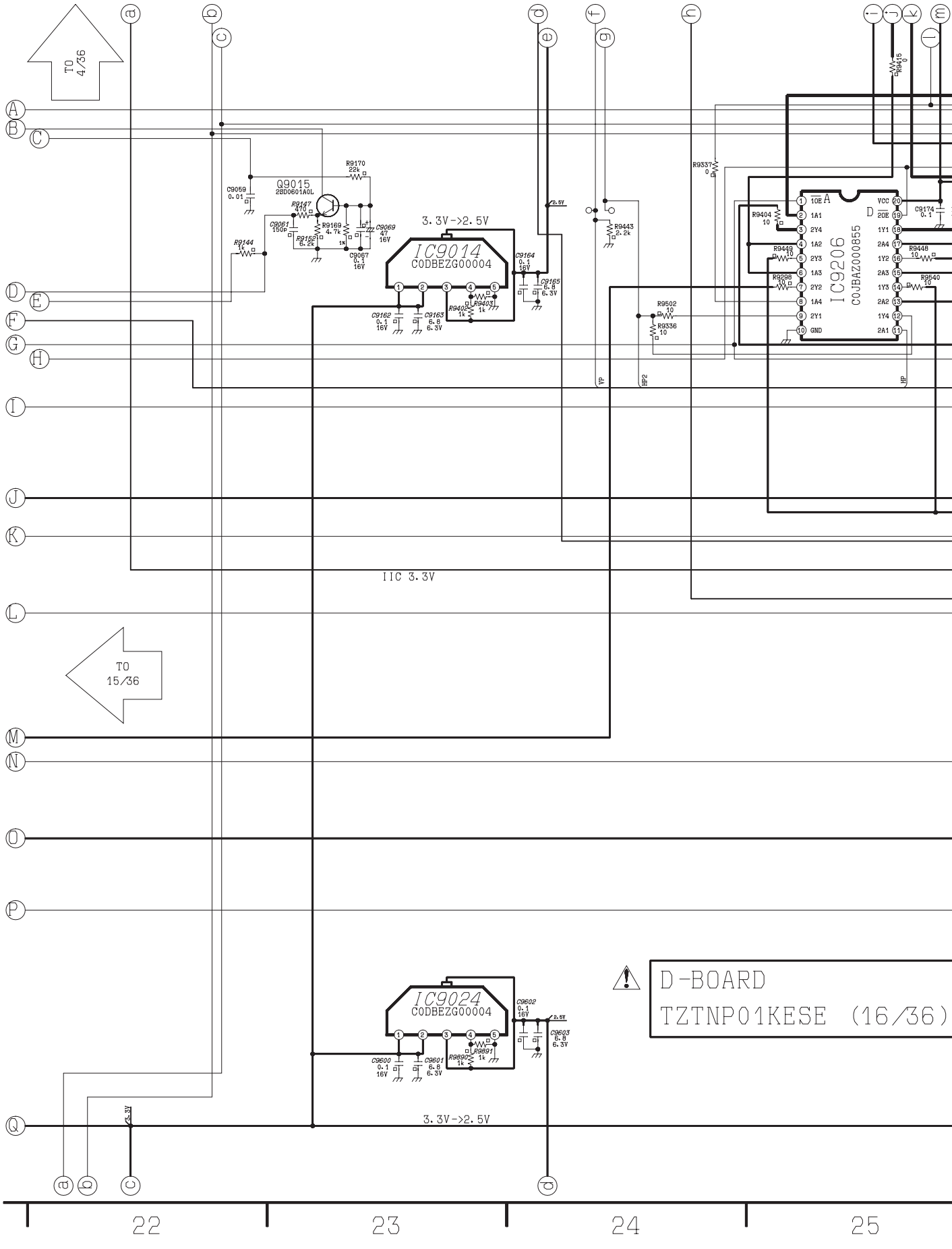

D-BOARD
TZTNP01KESE (14/36)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
TO 26/36
TO 15/36
11
12
13
14

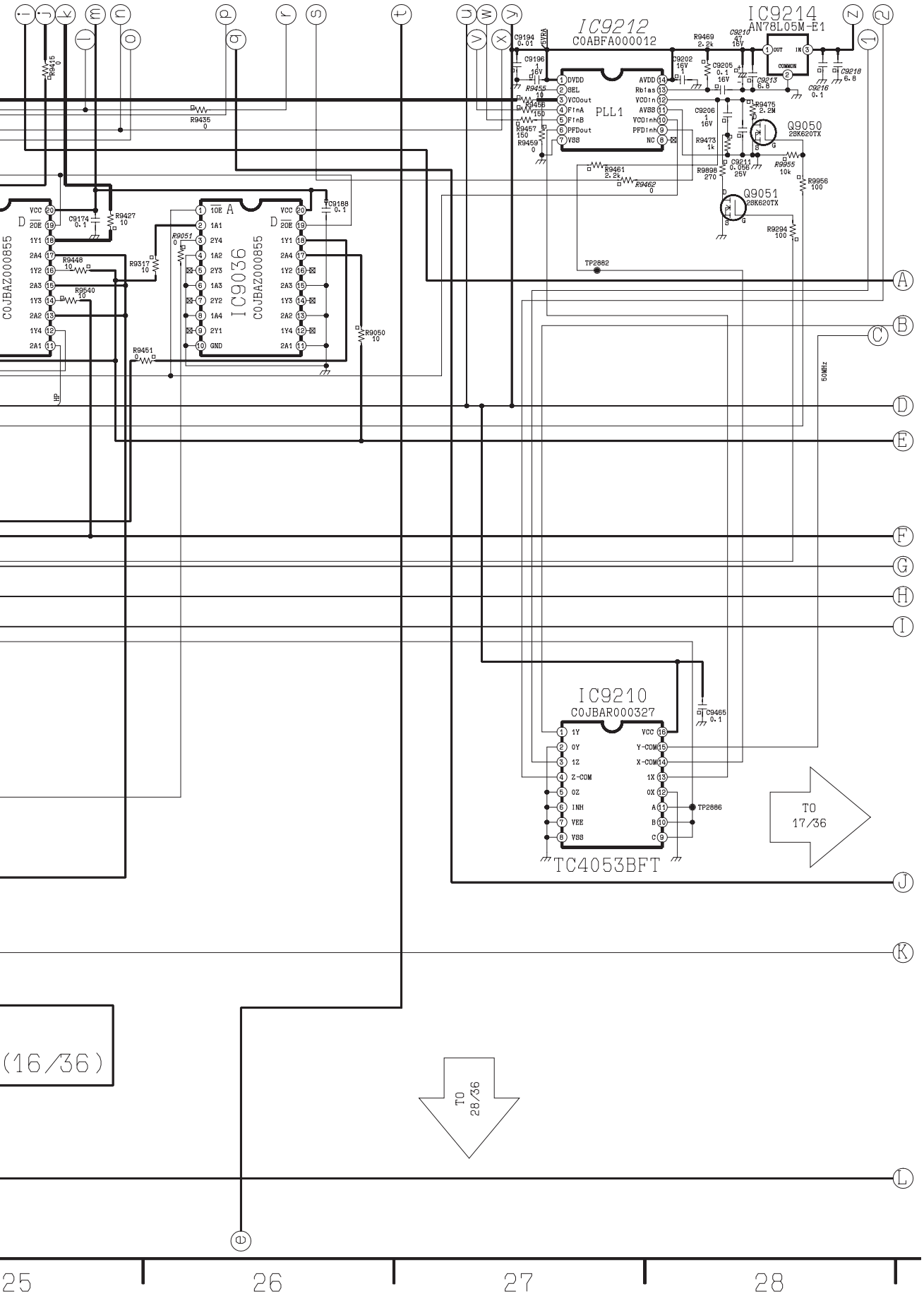
## 13.38. D-Board (15 of 36) Schematic Diagram



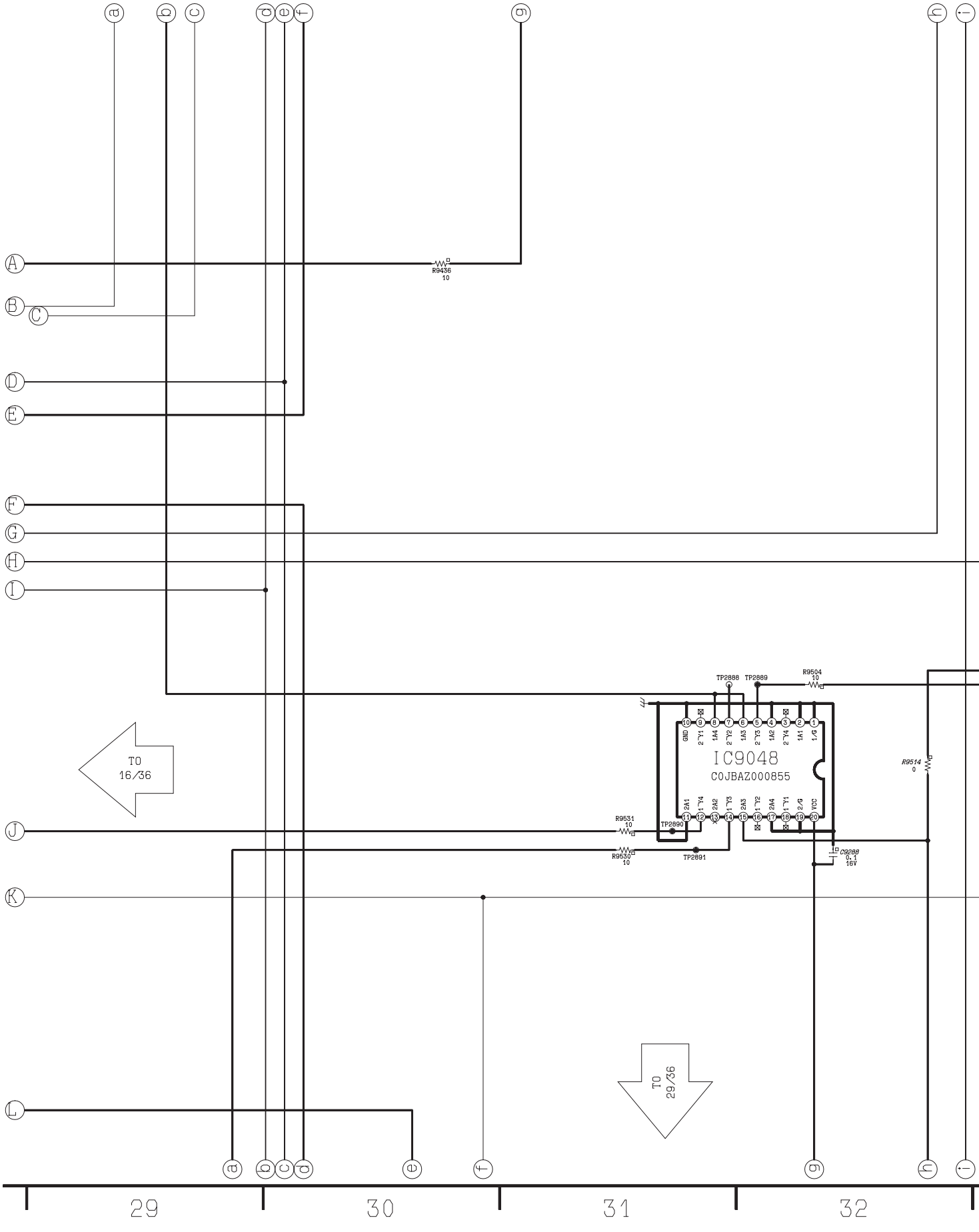

SLV [4E]
IC9202
C1ABD0000441
IC9223
C0JBAB000155
TC74HC14AFEL
TO
16/36
19
20
21

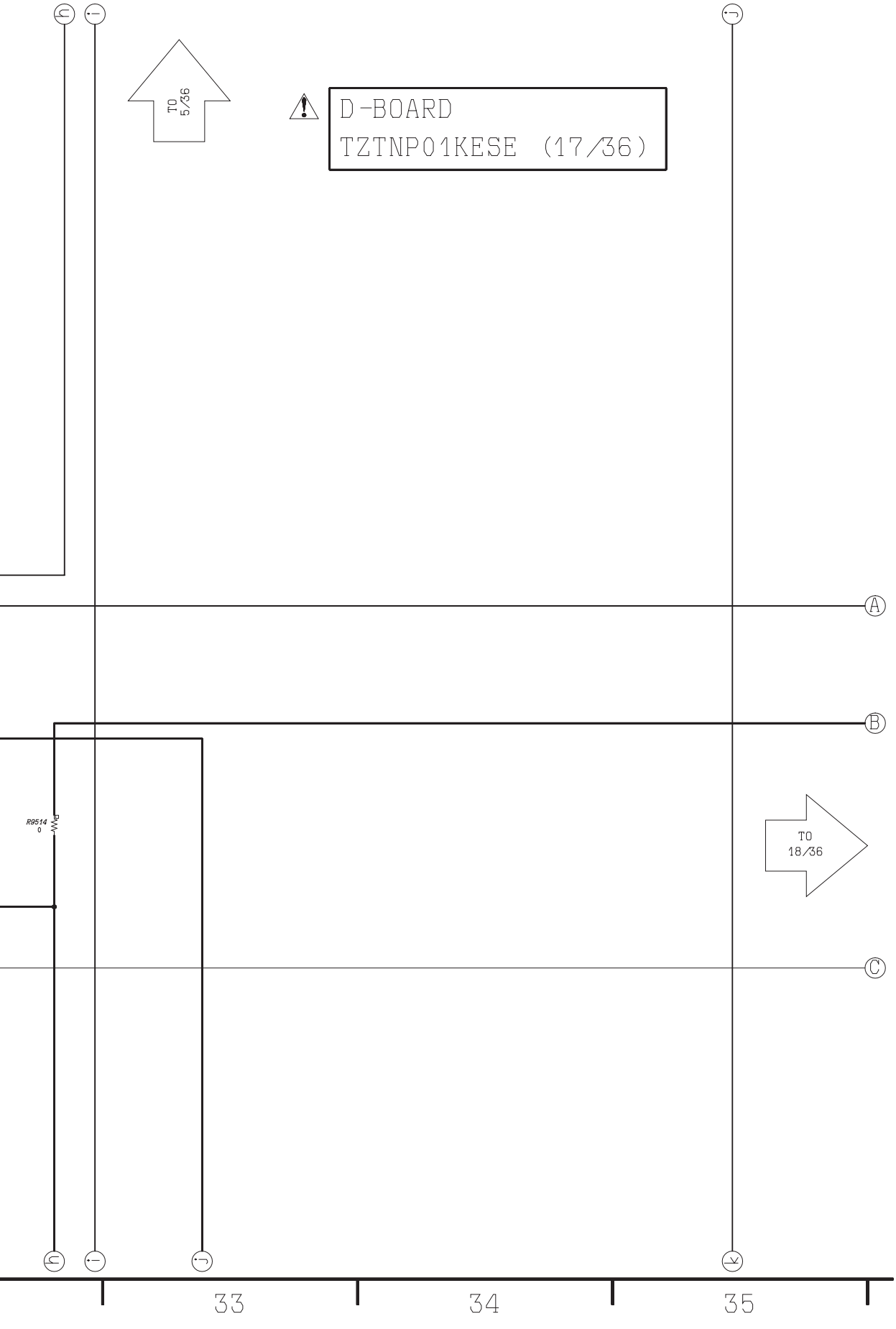
# 13.39. D-Board (16 of 36) Schematic Diagram



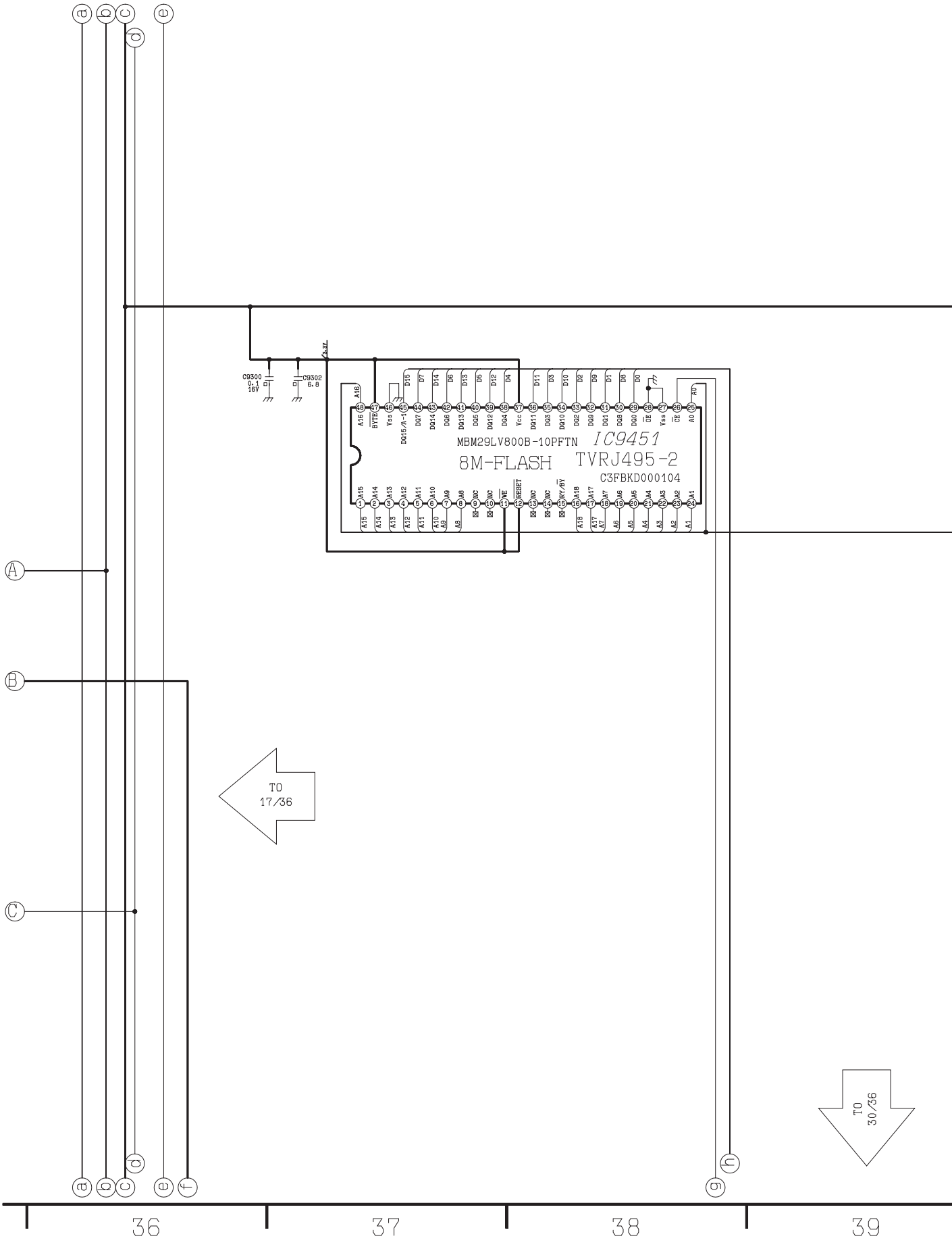

IC9212
C0ABFA000012
PLL1
IC9214
AN78L05M-E1
Q9050
2SK620TX
Q9051
2SK620TX
IC9036
C0JBAZ000855
IC9210
C0JBAR000327
TC4053BFT
TP2882
TP2886
50MHz
TO 17/36
TO 28/36
(16/36)
25
26
27
28

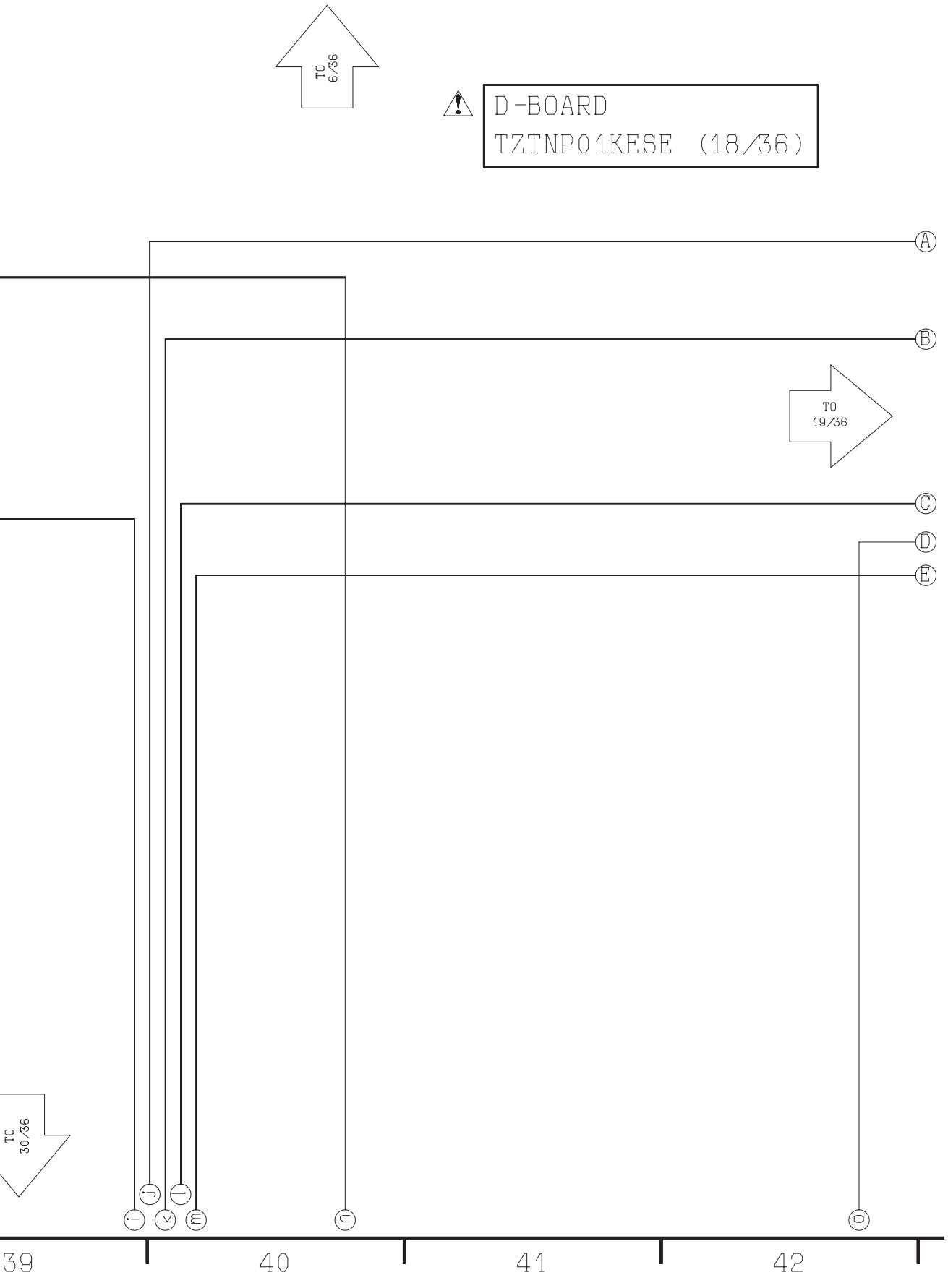
# 13.40. D-Board (17 of 36) Schematic Diagram



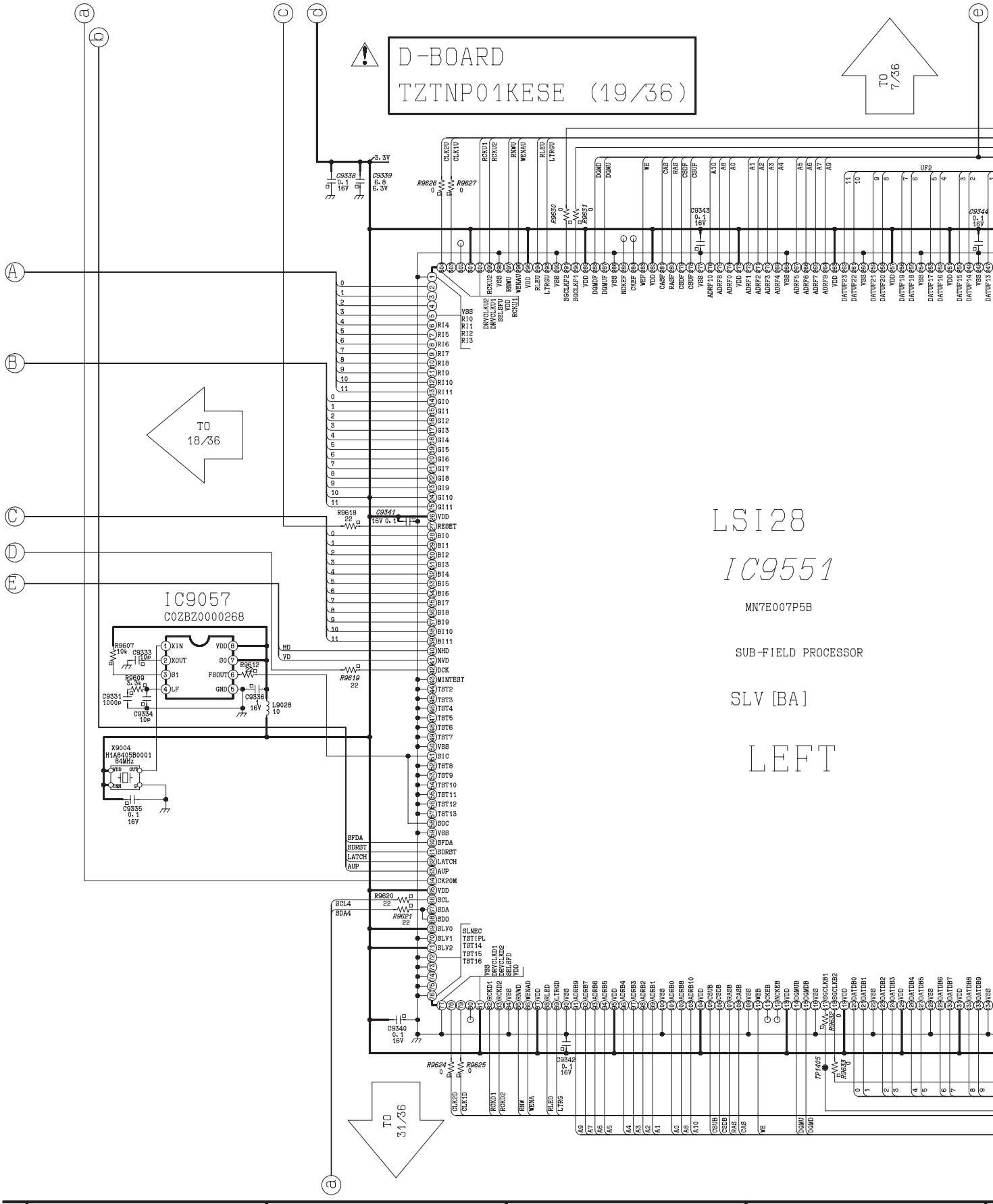

TO
5/36
D-BOARD
TZTNP01KESE (17/36)
A
B
C
R9514
0
TO
18/36
33
34
35

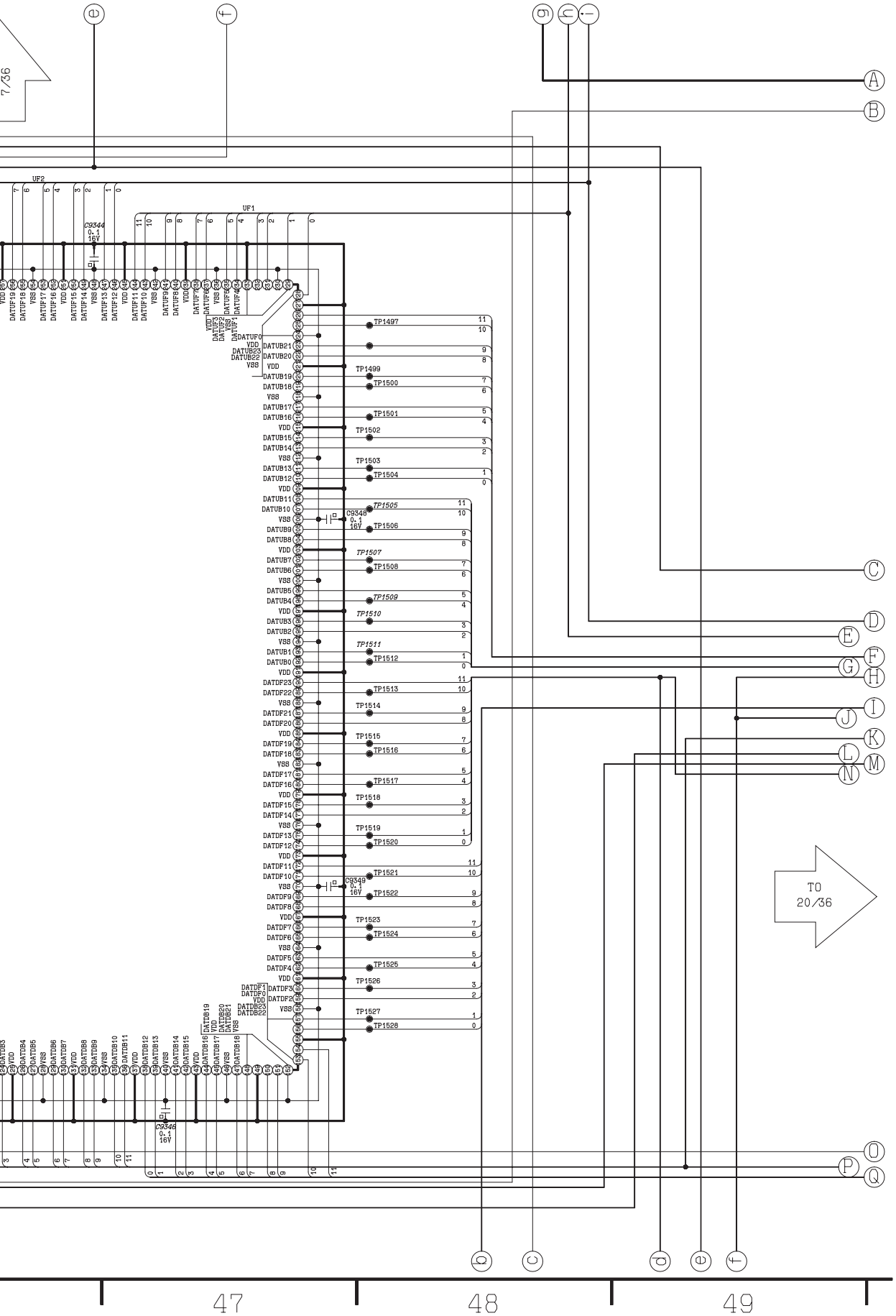
## 13.41. D-Board (18 of 36) Schematic Diagram



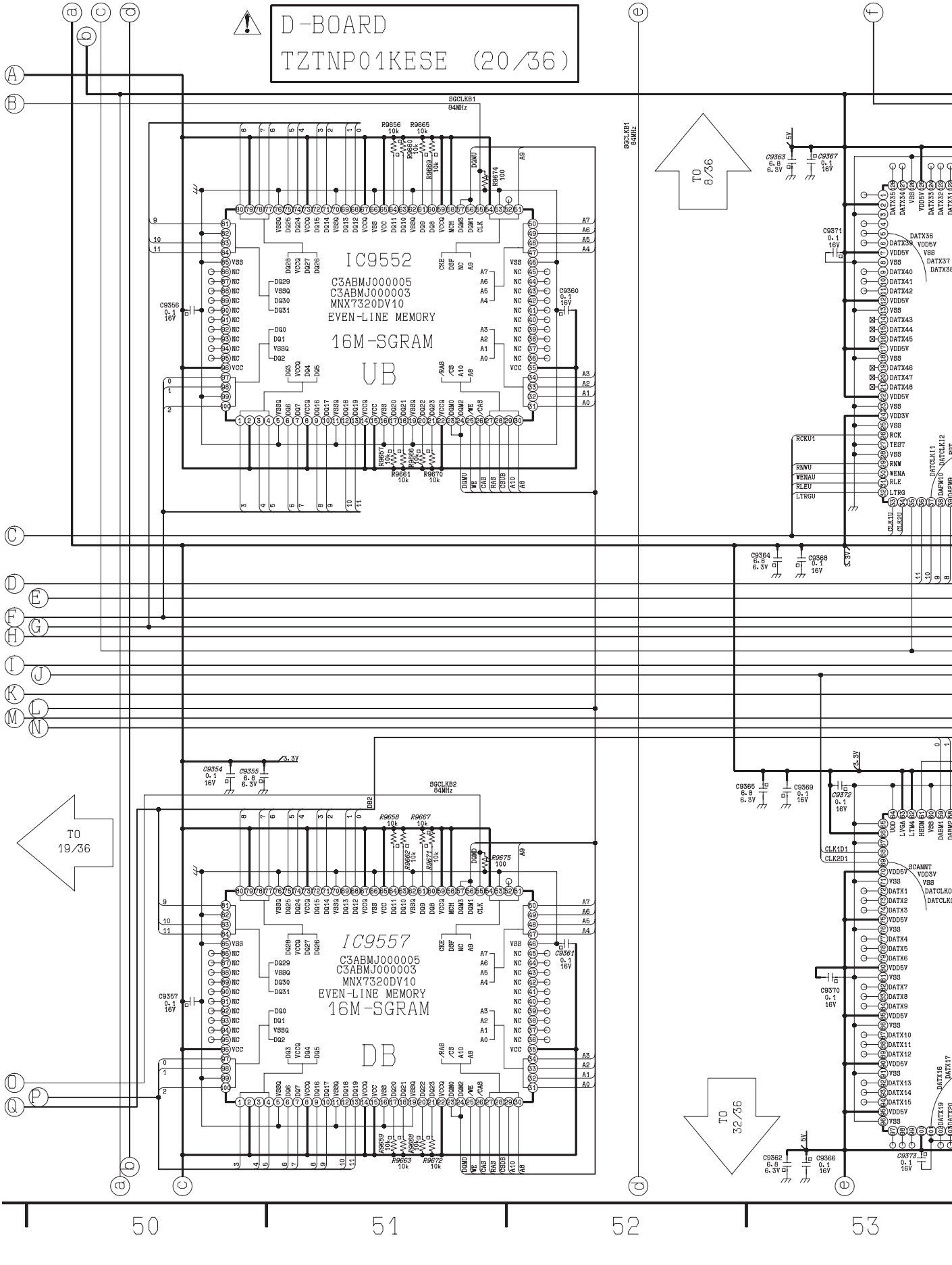

TO
6/36
D-BOARD
TZTNP01KESE (18/36)
A
B
TO
19/36
C
D
E
TO
30/36
39
40
41
42

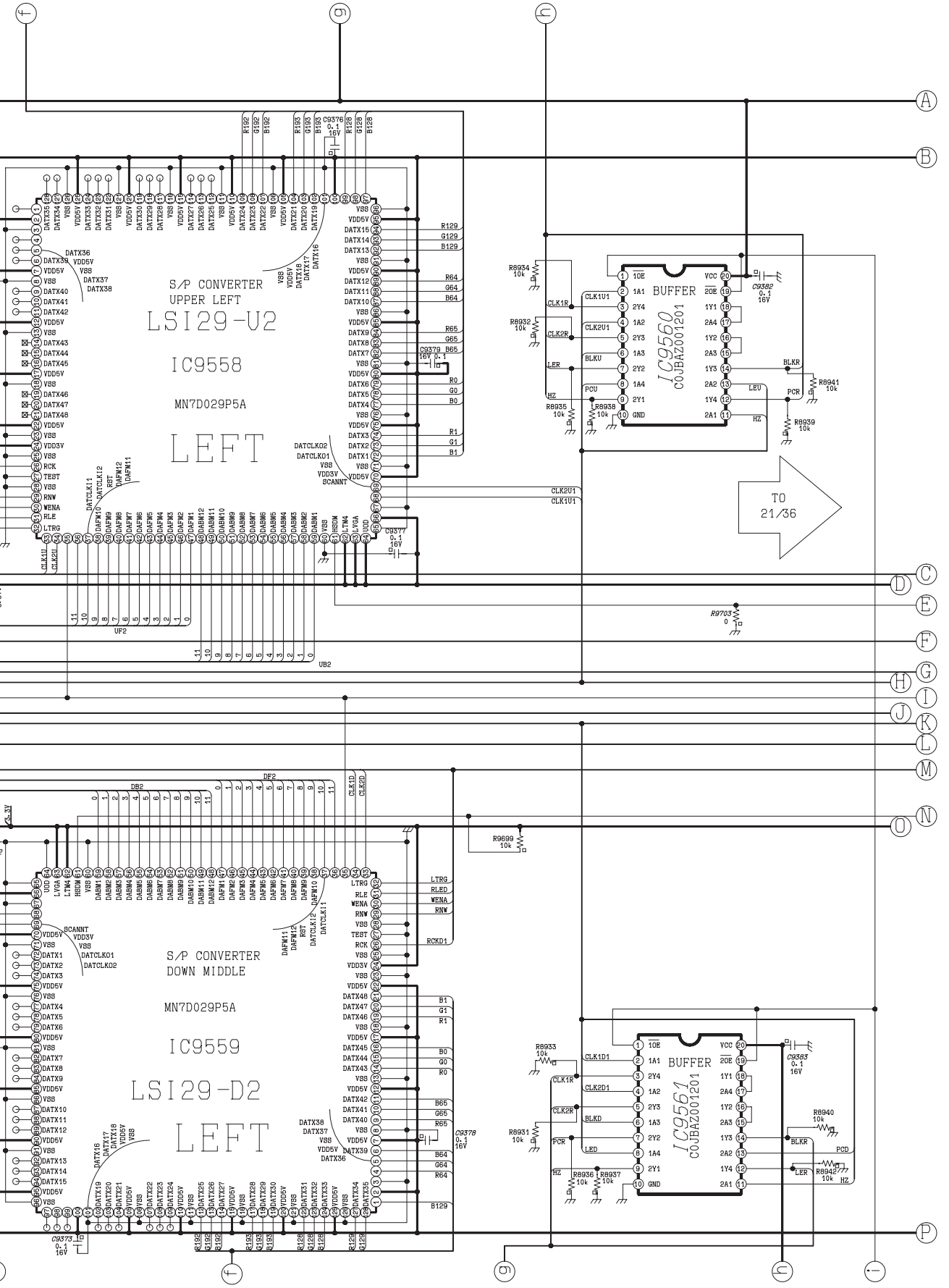
## 13.42. D-Board (19 of 36) Schematic Diagram



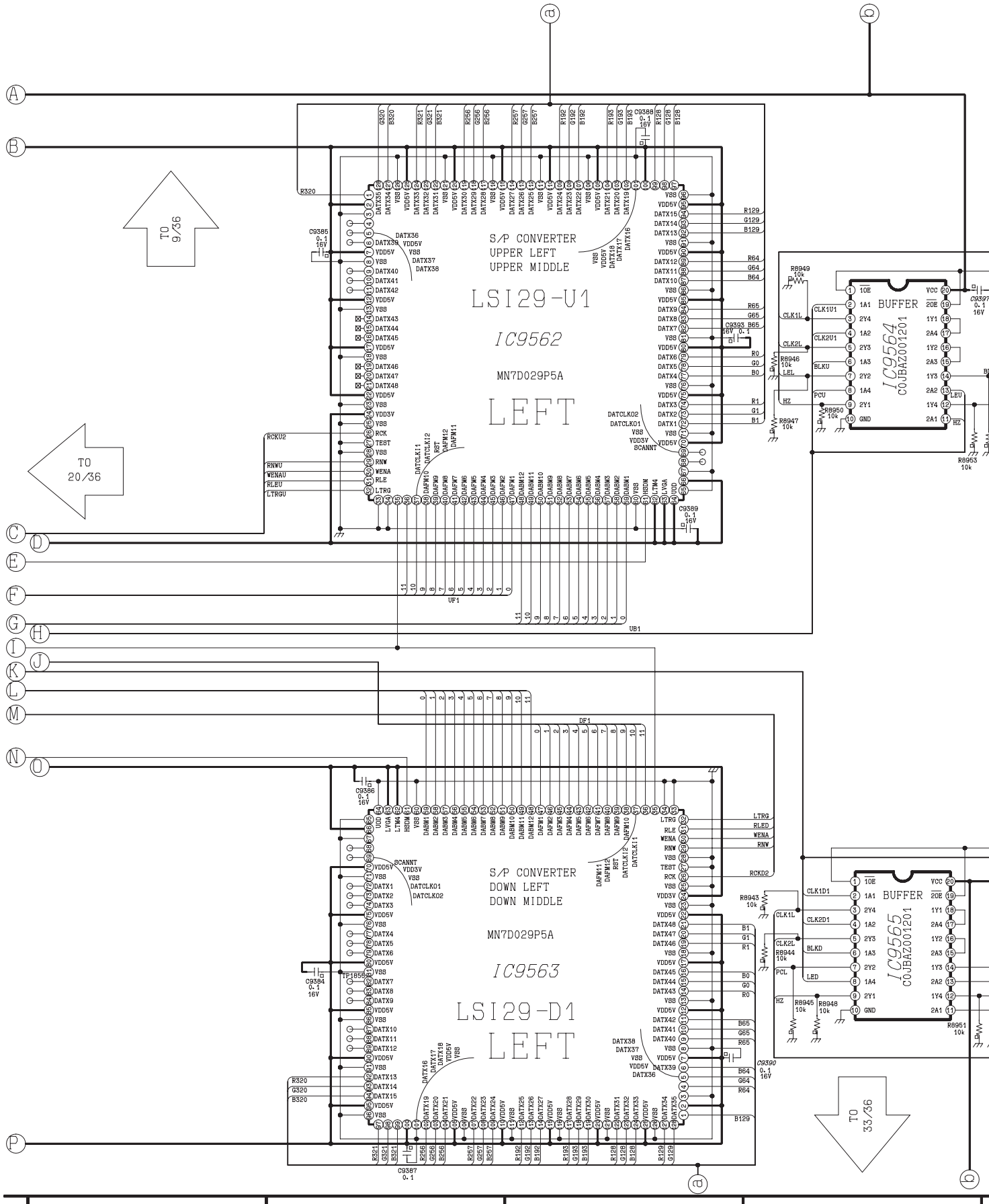

TO
20/36
47
48
49

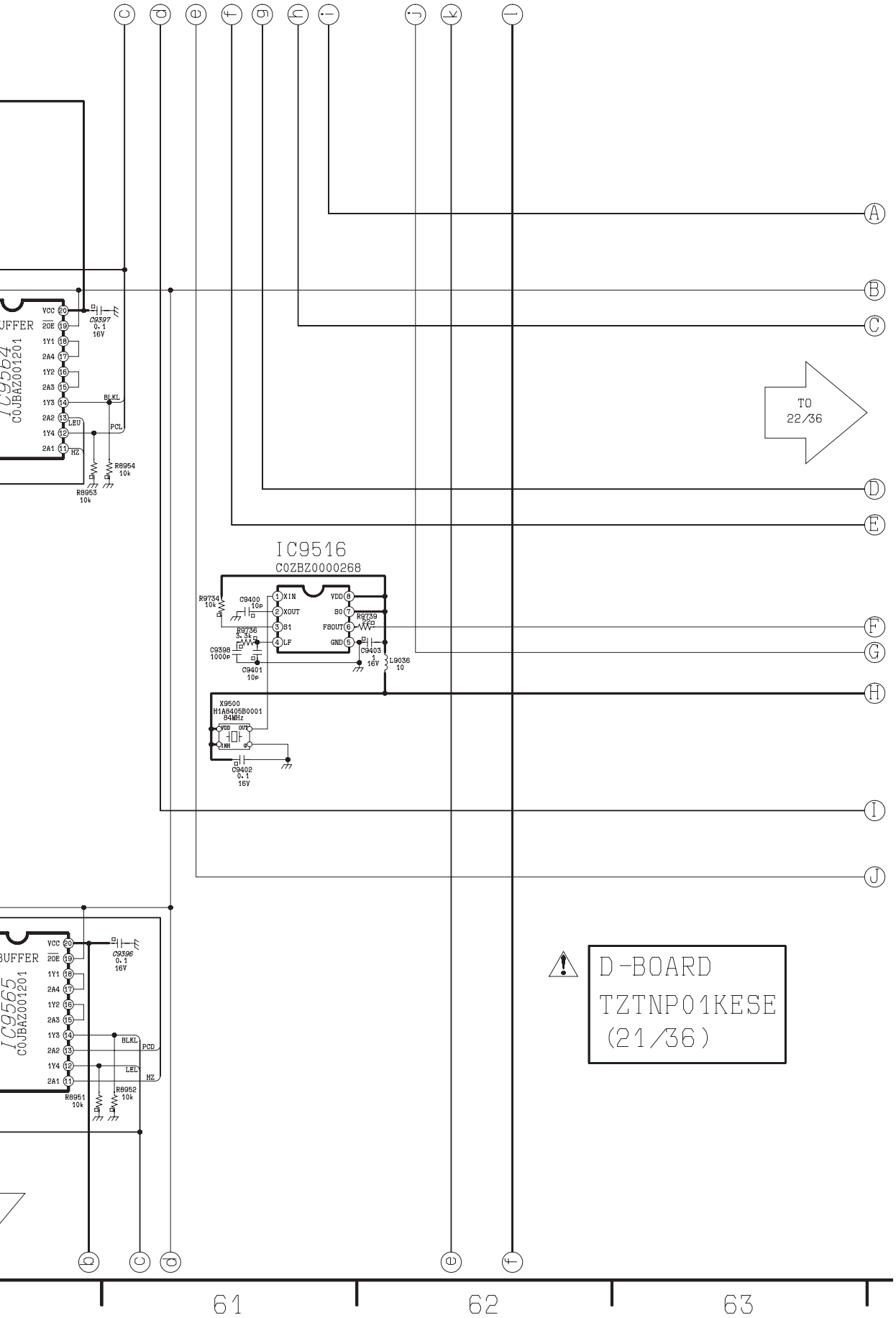
# 13.43. D-Board (20 of 36) Schematic Diagram



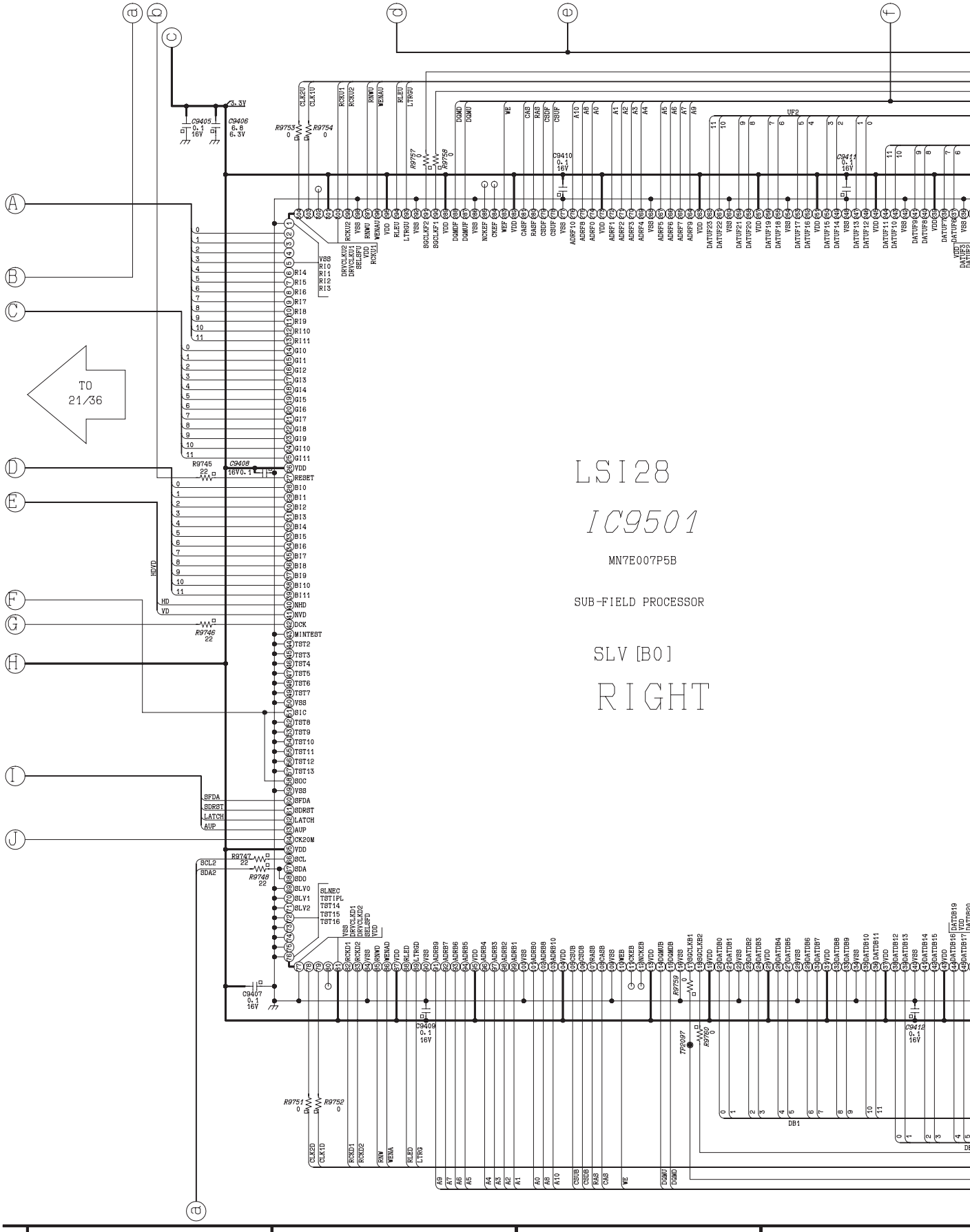

S/P CONVERTER
UPPER LEFT
LSI29-U2
IC9558
MN7D029P5A
LEFT
BUFFER
IC9560
COJBAZ001201
TO
21/36
S/P CONVERTER
DOWN MIDDLE
MN7D029P5A
IC9559
LSI29-D2
LEFT
BUFFER
IC9561
COJBAZ001201
53
54
55
56

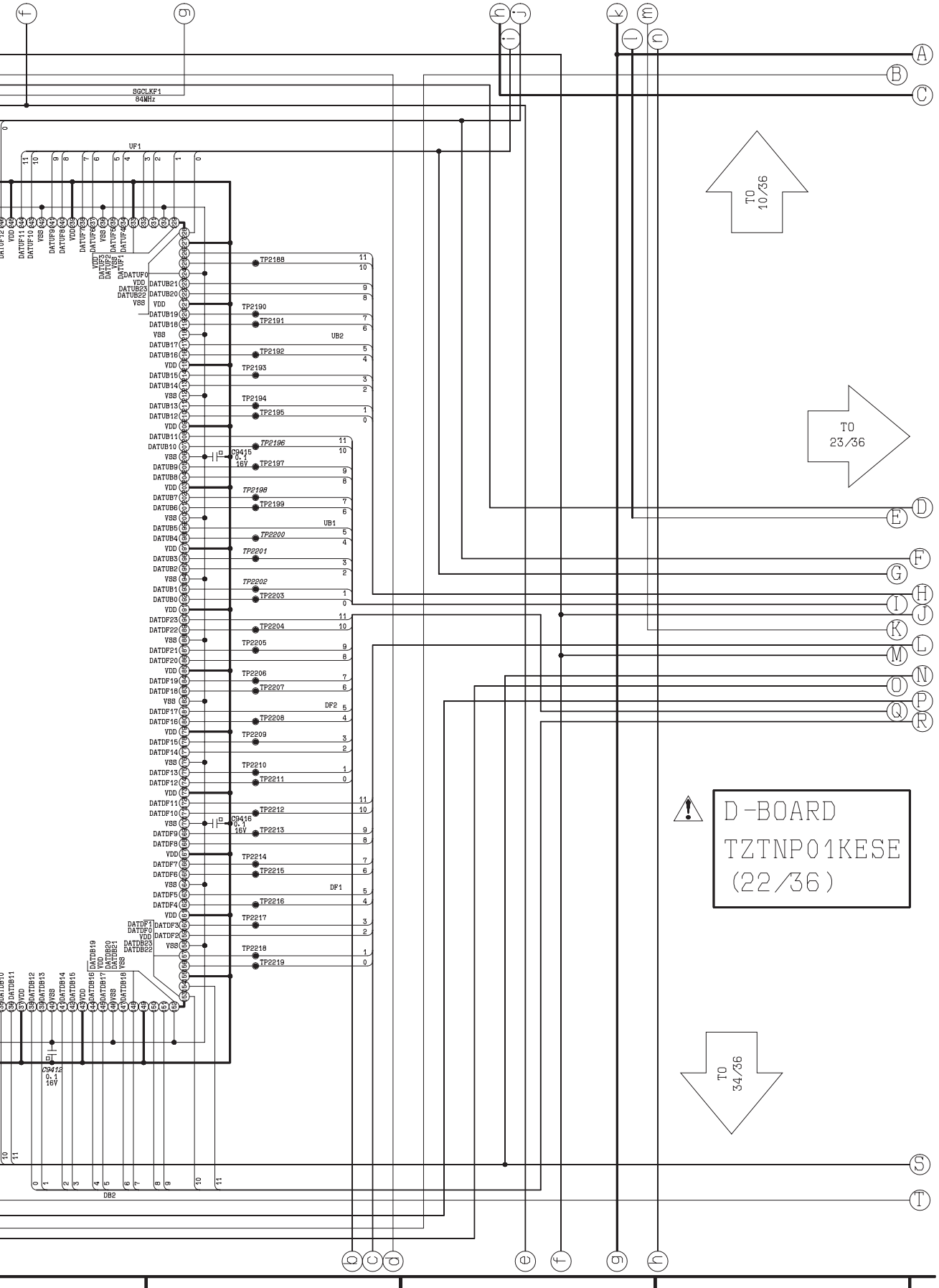
# 13.44. D-Board (21 of 36) Schematic Diagram



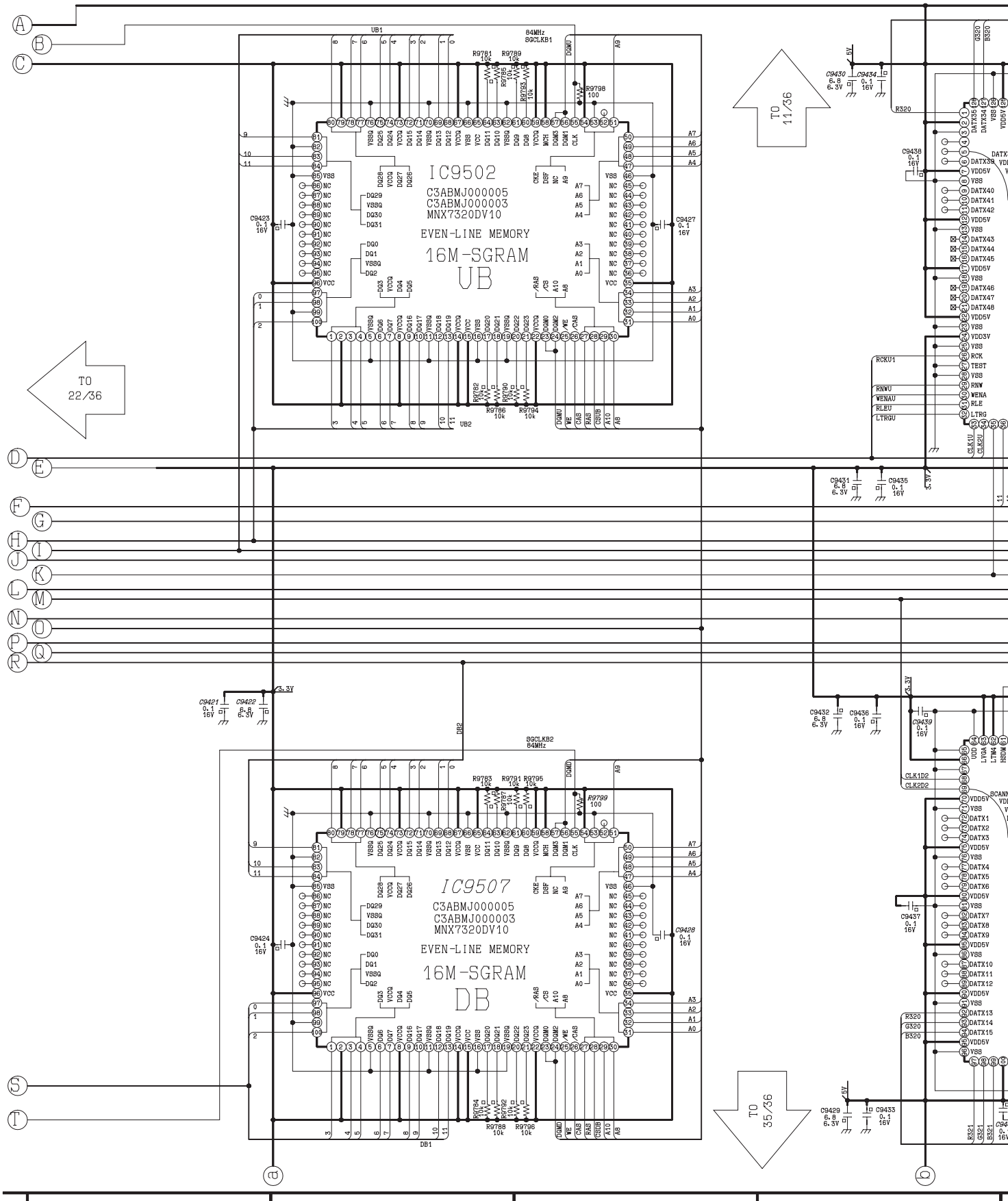

IC9564
C0JBAZ001201
VCC
20E
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
C9397
0.1
16V
BLKL
LEU
PCL
HZ
R8954
10k
R8953
10k
TO
22/36
IC9516
C0ZBZ0000268
R9734
10k
C9400
10p
XIN
XOUT
S1
LF
VDD
S0
FSOUT
GND
R9739
22Ω
R9736
3.3k
C9398
1000p
C9401
10p
C9403
16V
L9036
10
X9500
H1A9405B0001
84MHz
VDD
OUT
GND
C9402
0.1
16V
IC9565
C0JBAZ001201
C9396
0.1
16V
BLKL
PCD
LED
HZ
R8951
10k
R8952
10k
D-BOARD
TZTNP01KESE
(21/36)
61
62
63

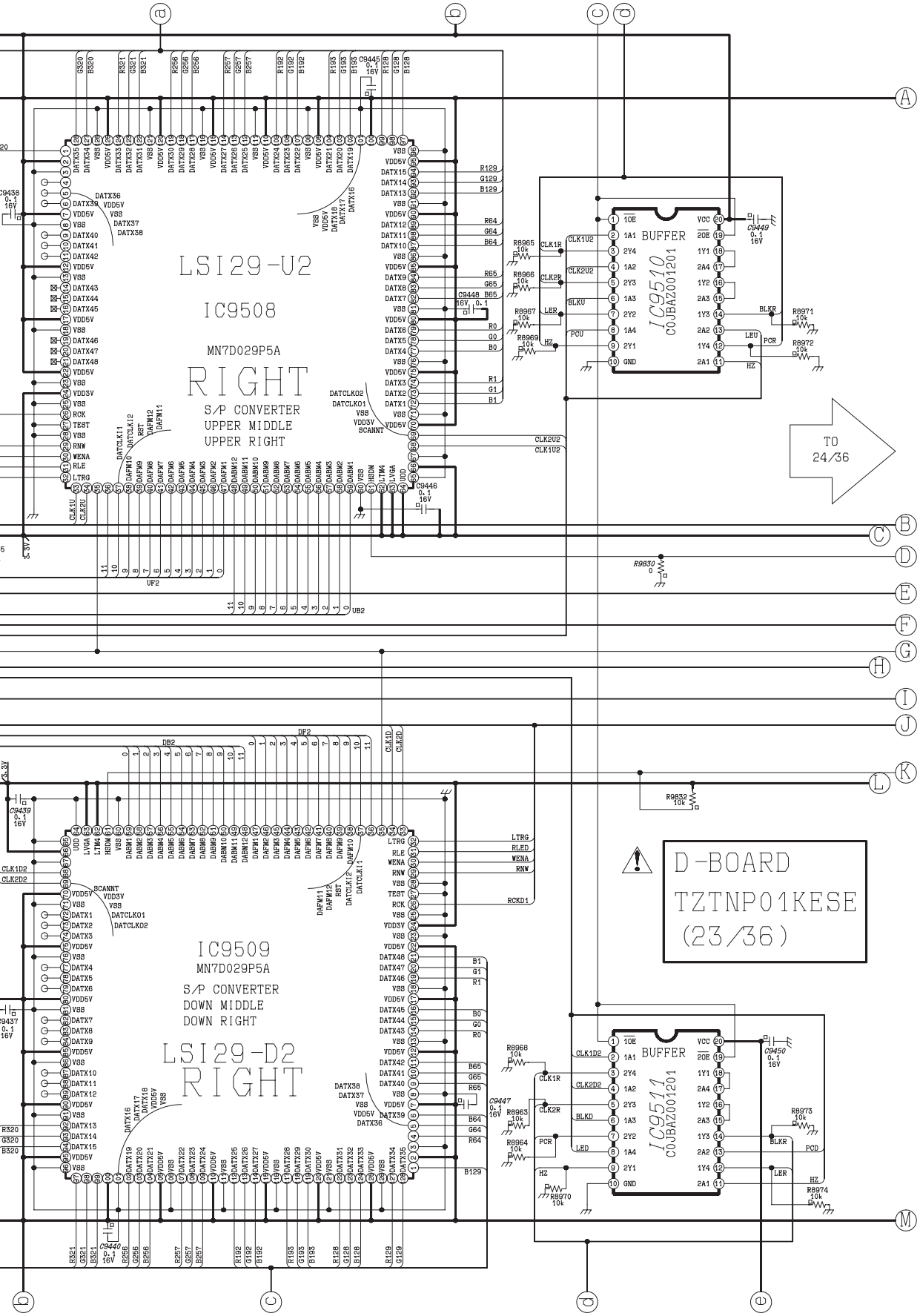
# 13.45. D-Board (22 of 36) Schematic Diagram



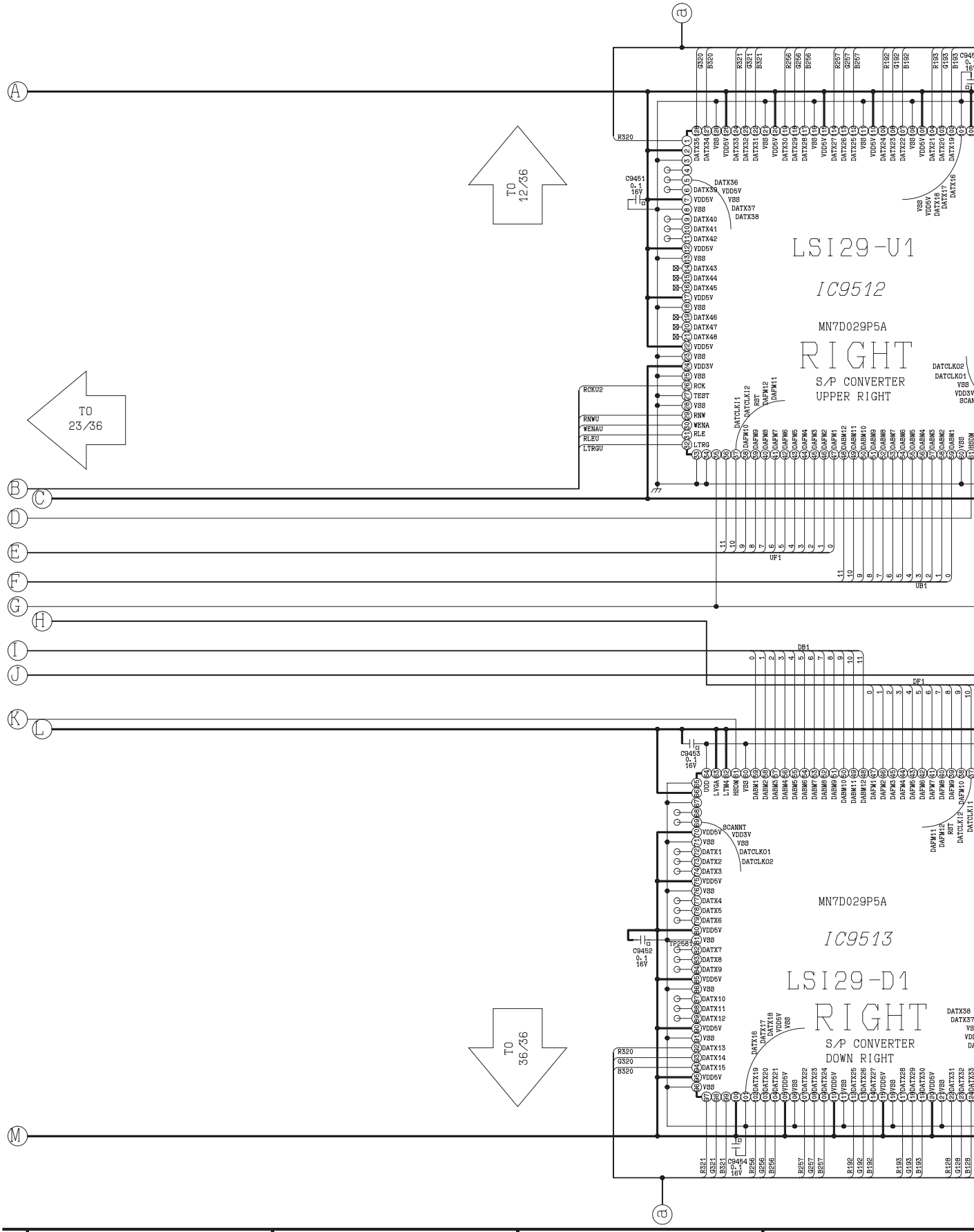

SGCLKF1
84MHz
UF1
TO
10/36
TO
23/36
TO
34/36
D-BOARD
TZTNP01KESE
(22/36)
UB2
UB1
DF2
DF1
DB2
67
68
69
70

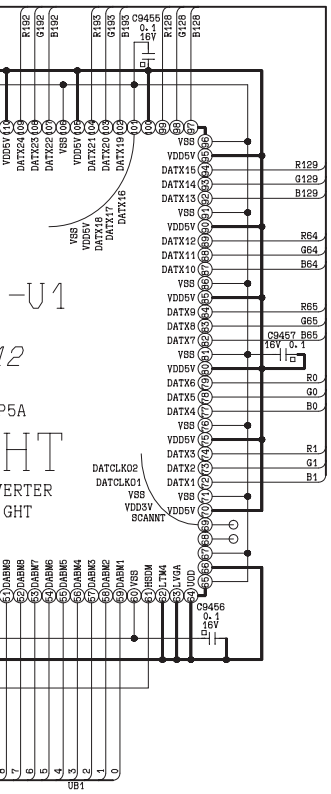
# 13.46. D-Board (23 of 36) Schematic Diagram

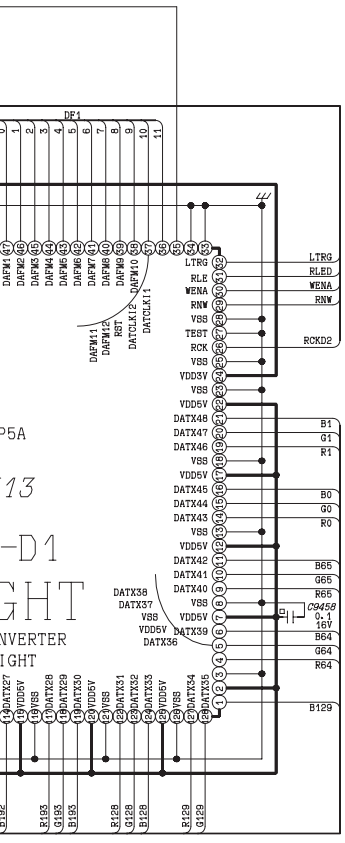



LSI29-U2
IC9508
MN7D029P5A
RIGHT
S/P CONVERTER
UPPER MIDDLE
UPPER RIGHT
IC9510
COJBAZ001201
BUFFER
TO
24/36
LSI29-D2
IC9509
MN7D029P5A
RIGHT
S/P CONVERTER
DOWN MIDDLE
DOWN RIGHT
IC9511
COJBAZ001201
BUFFER
D-BOARD
TZTNP01KESE
(23/36)
75
76
77

## 13.47. D-Board (24 of 36) Schematic Diagram

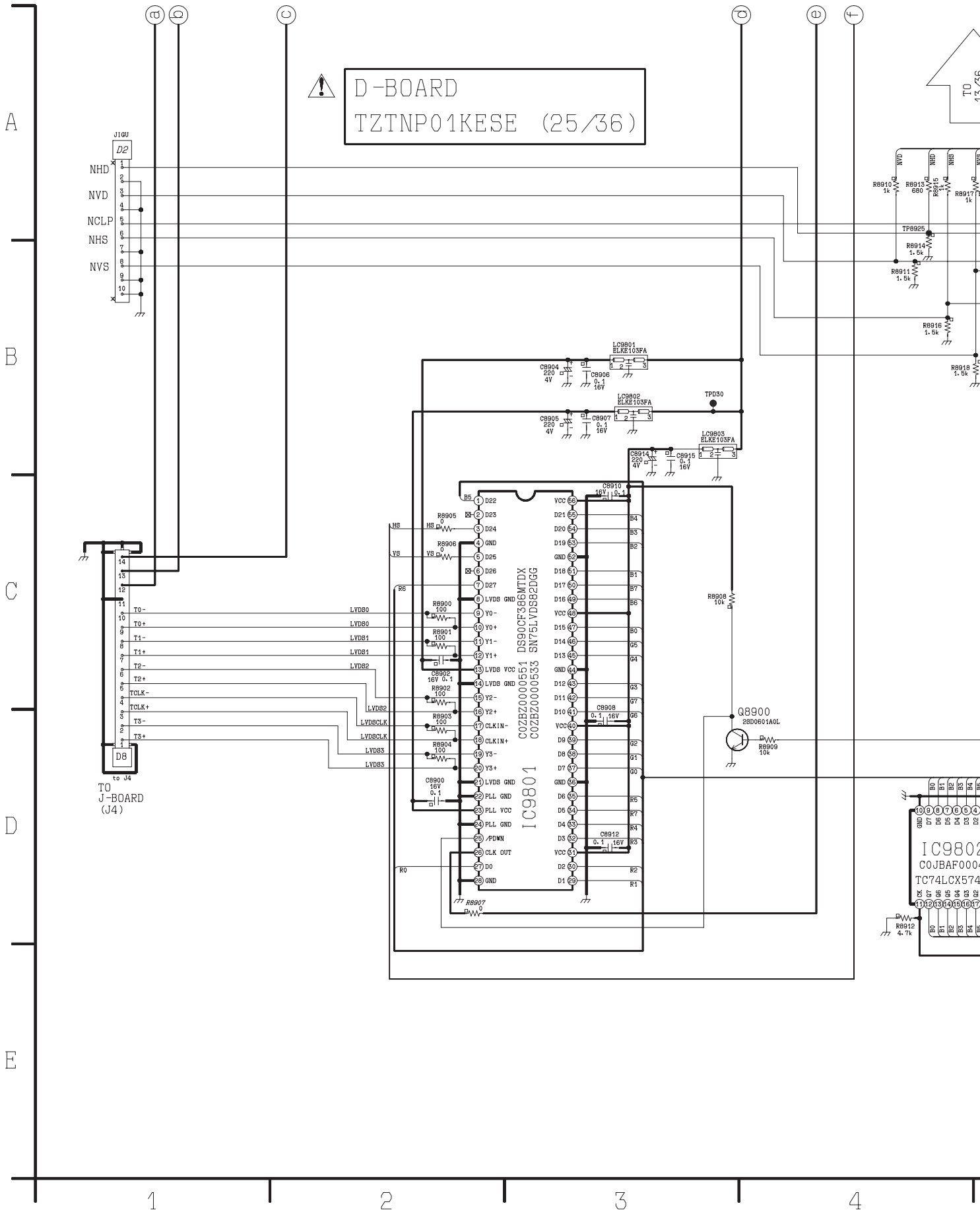


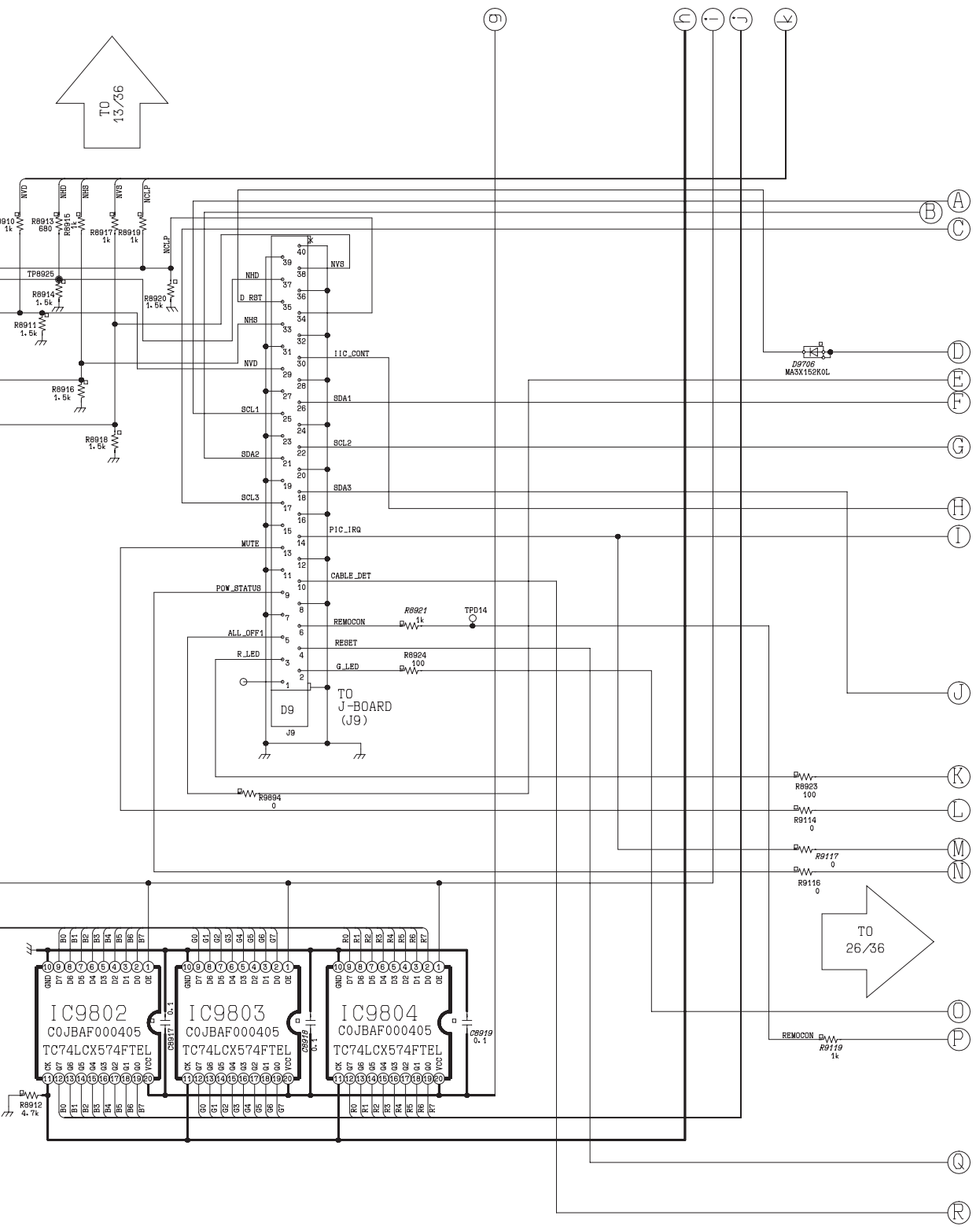




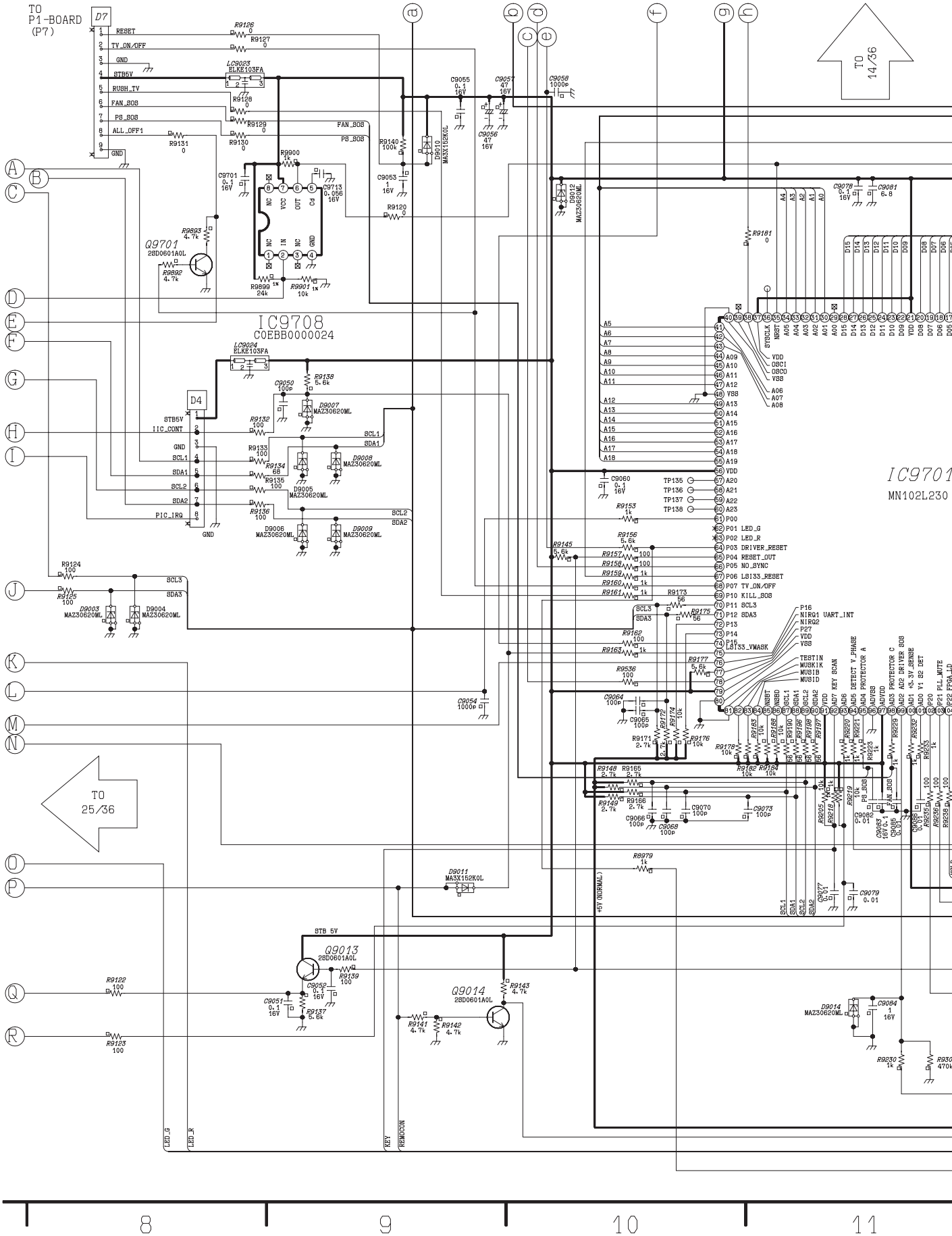
D-BOARD
TZTNP01KESE (24/36)

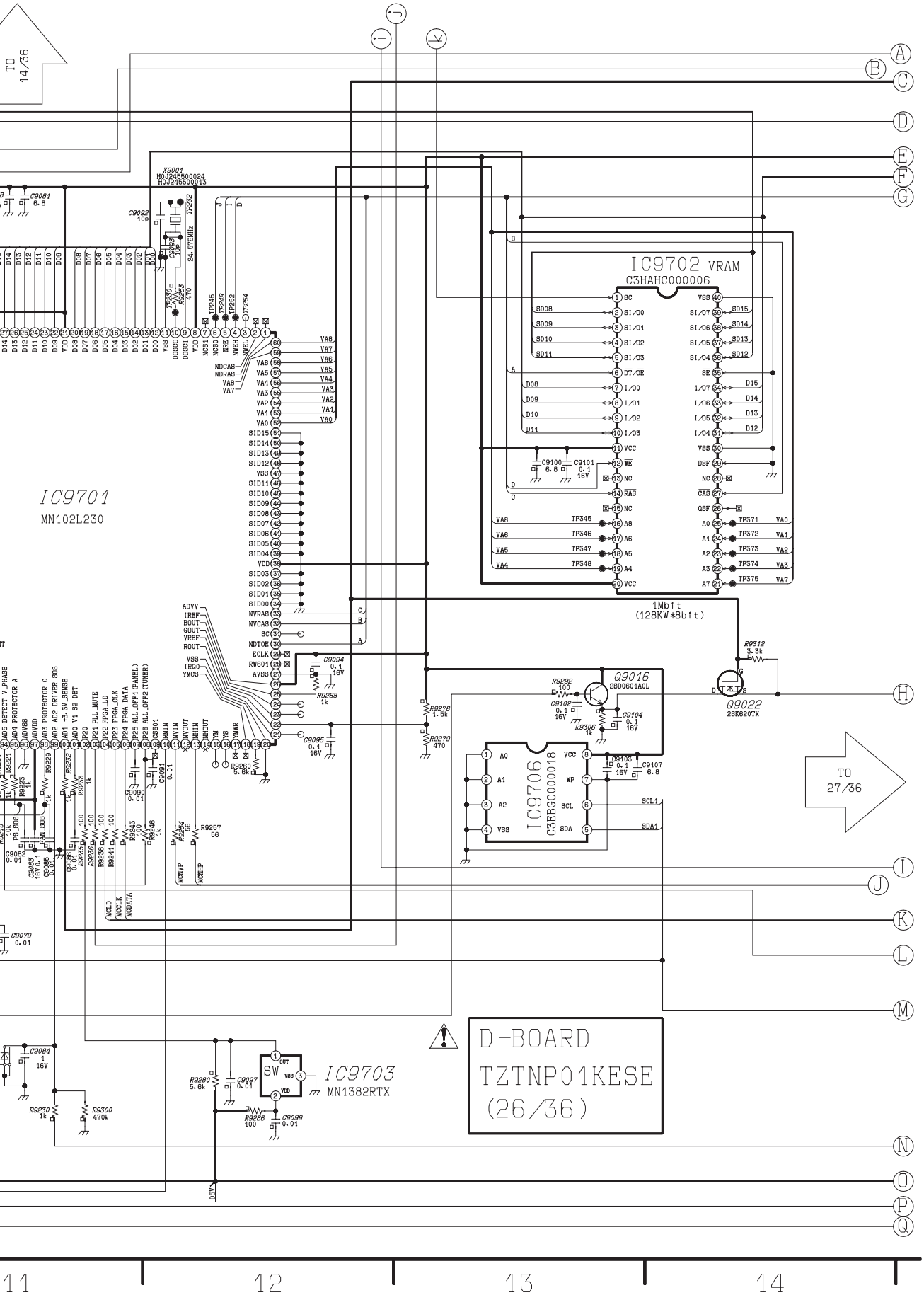
# 13.48. D-Board (25 of 36) Schematic Diagram



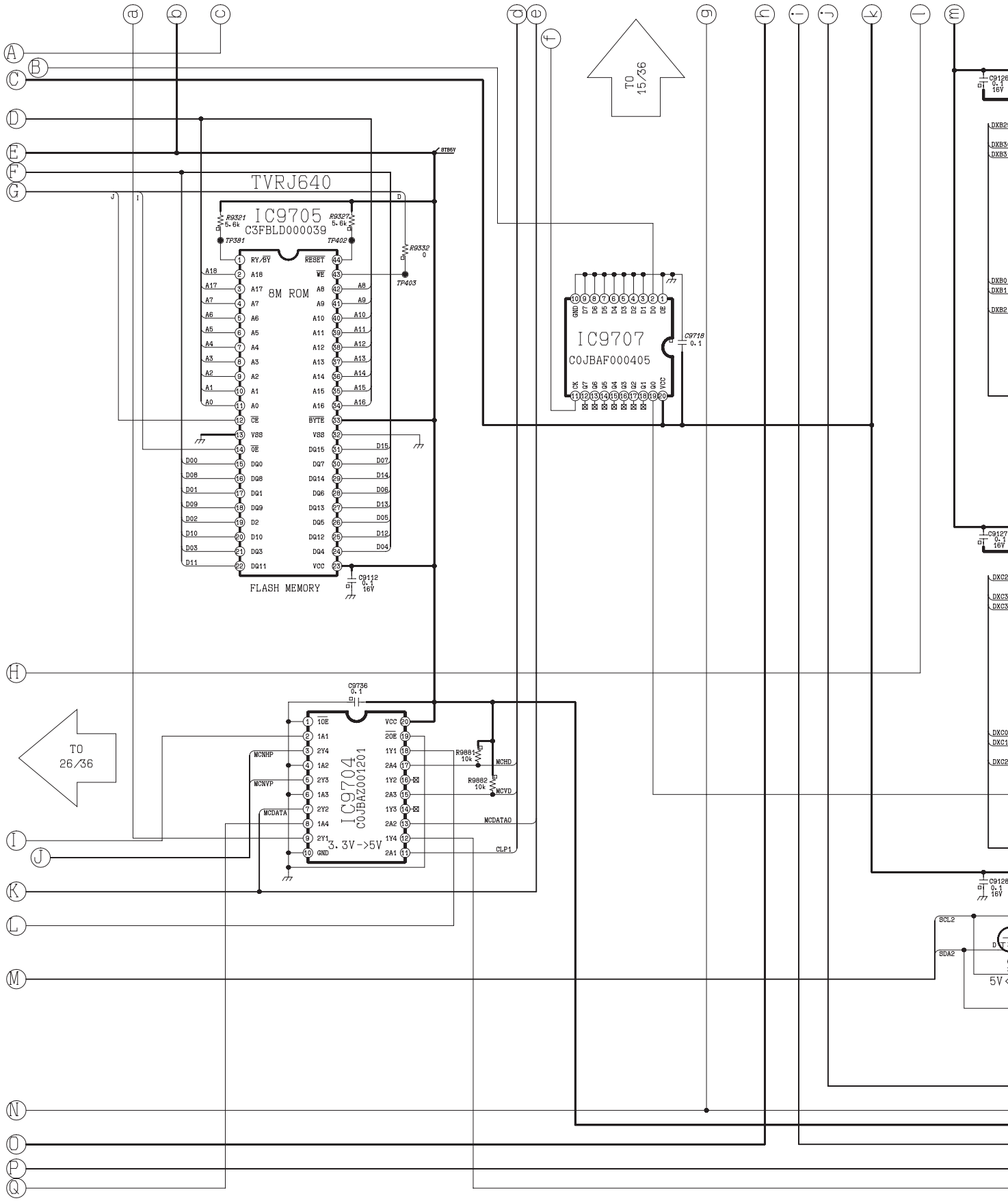

TO 13/36
NVD
NHD
NHS
NVS
NCLP
R8913 680
R8915 1k
R8917 1k
R8919 1k
R8910 1k
TP8925
R8914 1.5k
R8911 1.5k
R8916 1.5k
R8918 1.5k
R8920 1.5k
D_RST
IIC_CONT
SDA1
SCL1
SCL2
SDA2
SDA3
SCL3
PIC_IRQ
MUTE
CABLE_DET
POW_STATUS
REMOCON
R8921 1k
TPD14
ALL_OFF1
RESET
R_LED
G_LED
R8924 100
D9
J9
TO J-BOARD (J9)
R9894 0
D9706 MA3X152K0L
R8923 100
R9114 0
R9117 0
R9116 0
TO 26/36
REMOCON
R9119 1k
IC9802 C0JBAF000405 TC74LCX574FTEL
IC9803 C0JBAF000405 TC74LCX574FTEL
IC9804 C0JBAF000405 TC74LCX574FTEL
C8917 0.1
C8918 0.1
C8919 0.1
R8912 4.7k

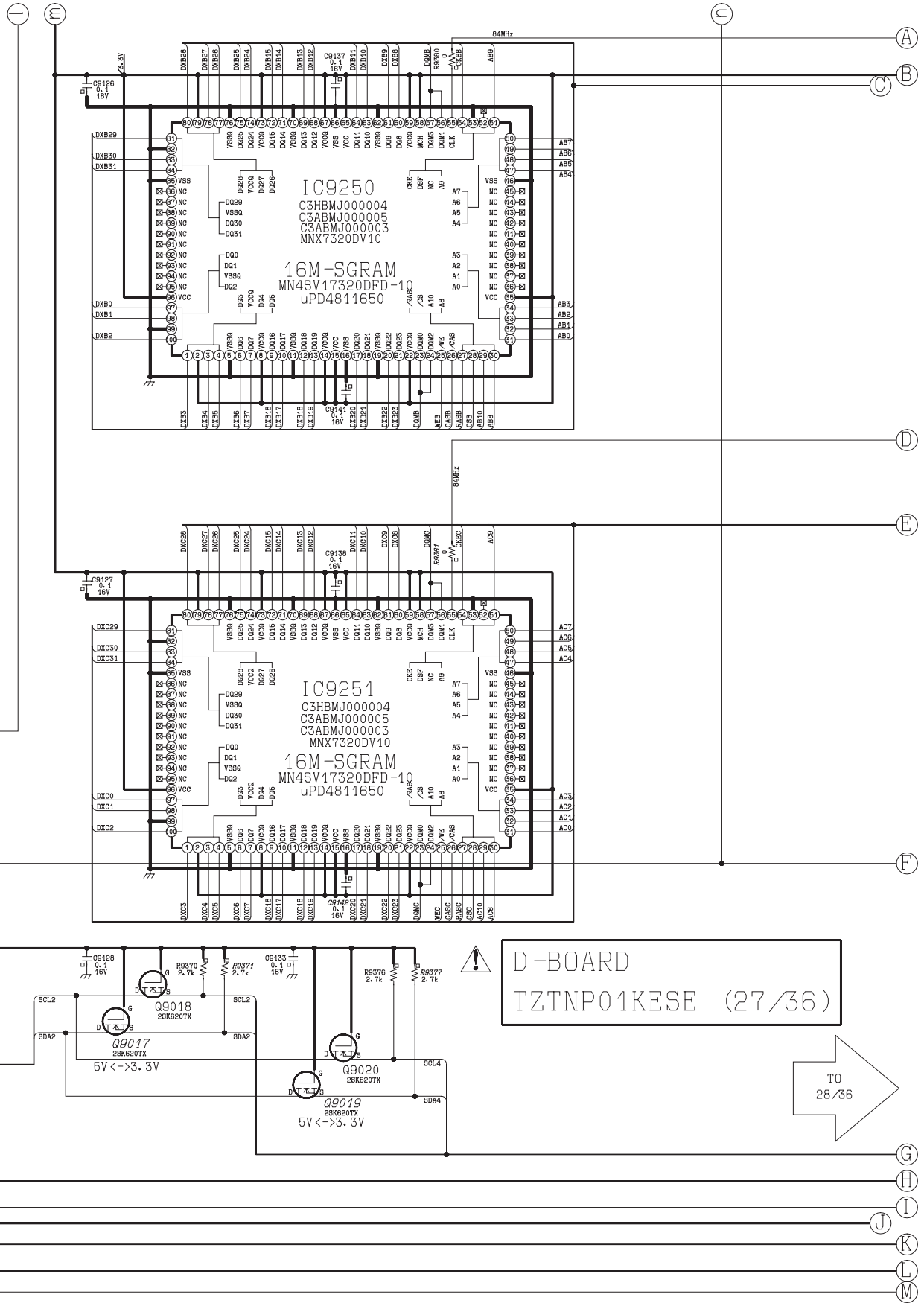
# 13.49. D-Board (26 of 36) Schematic Diagram




TO 14/36
IC9702 VRAM
C3HAHC000006
1Mbit
(128KW*8bit)
IC9701
MN102L230
IC9706
C3EBGC000018
IC9703
MN1382RTX
Q9016
2SD0601A0L
Q9022
2SK620TX
TO 27/36
D-BOARD
TZTNP01KESE
(26/36)
11
12
13
14

# 13.50. D-Board (27 of 36) Schematic Diagram



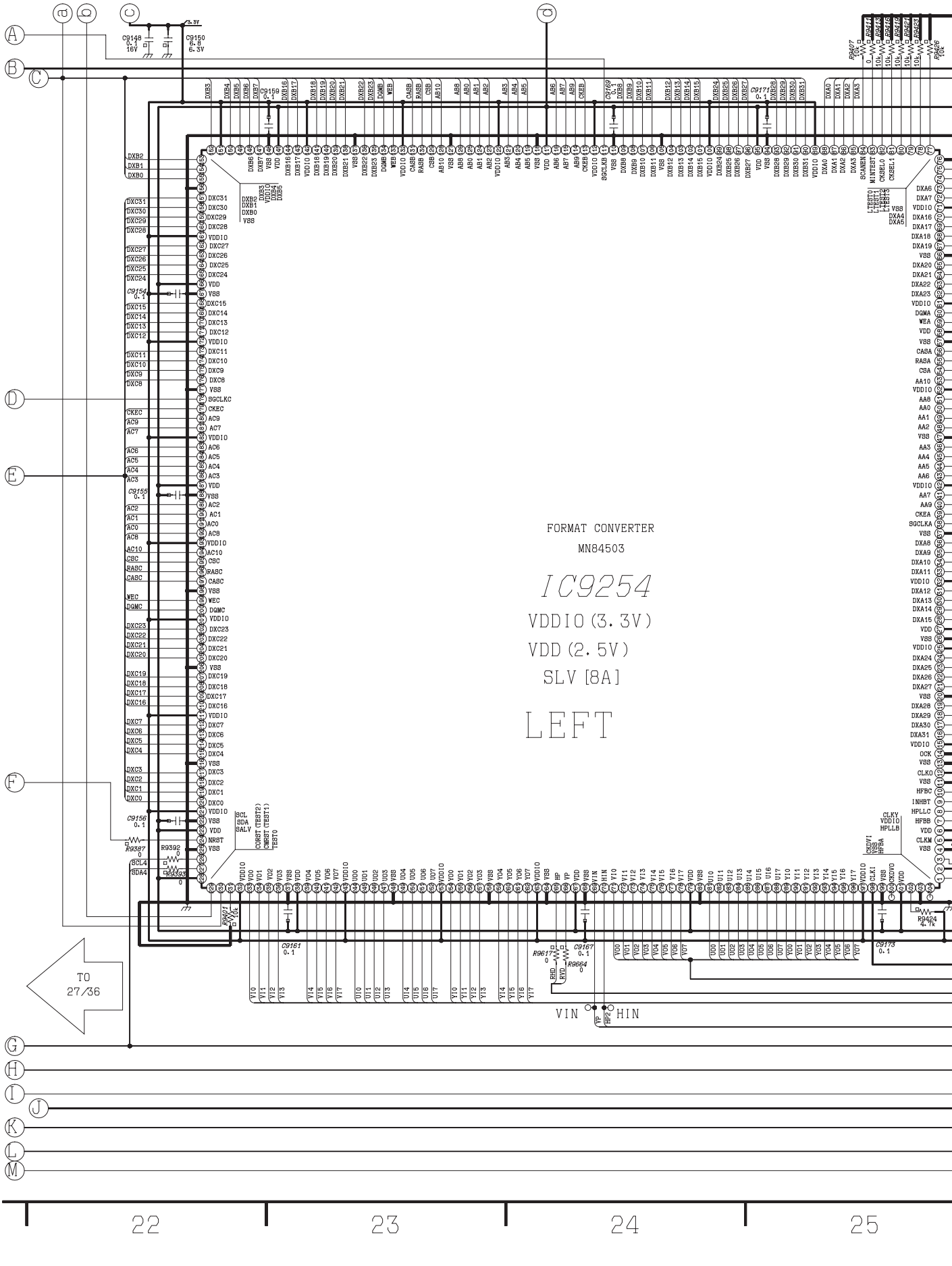


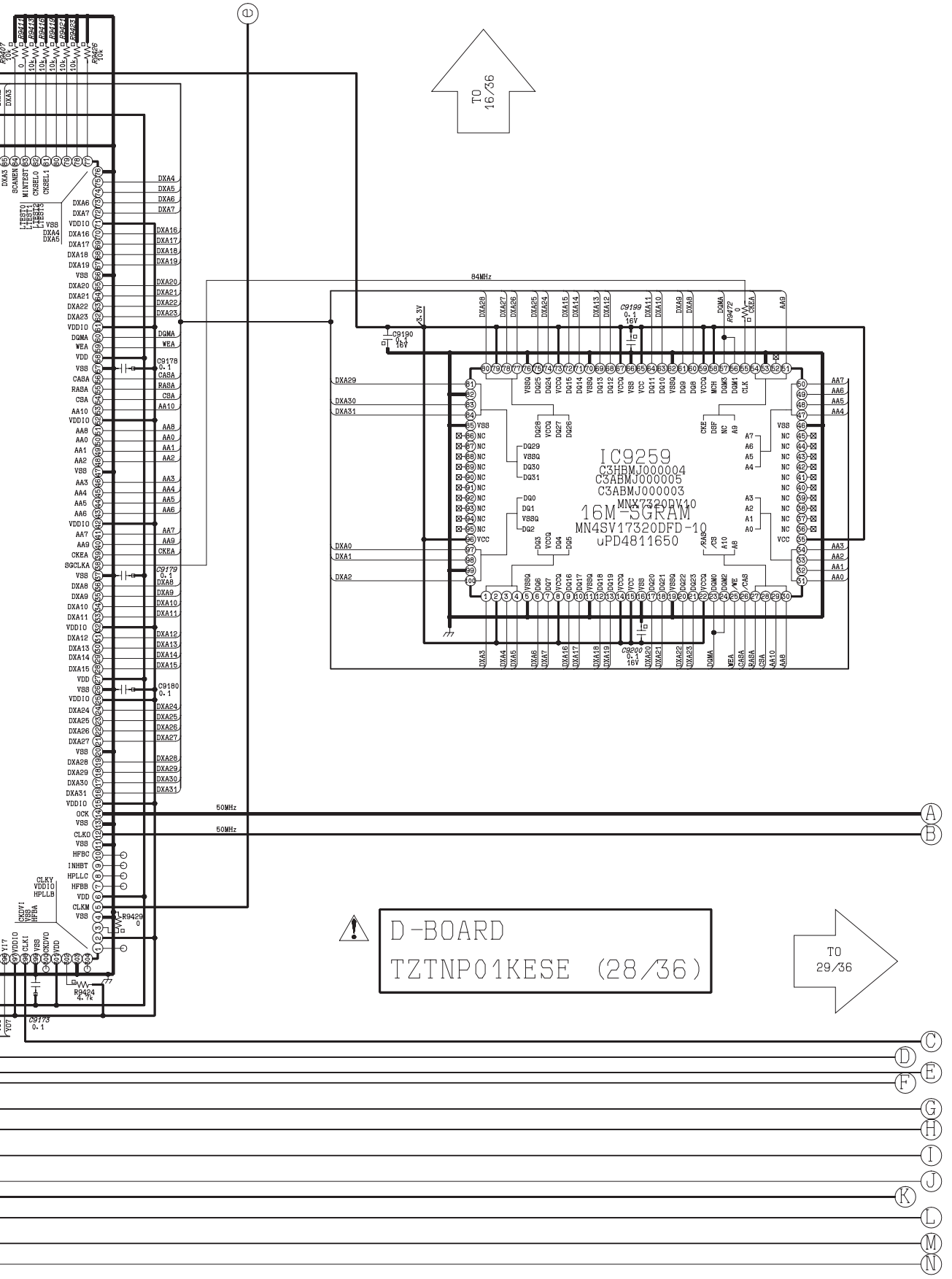

D-BOARD
TZTNP01KESE (27/36)

TO
28/36

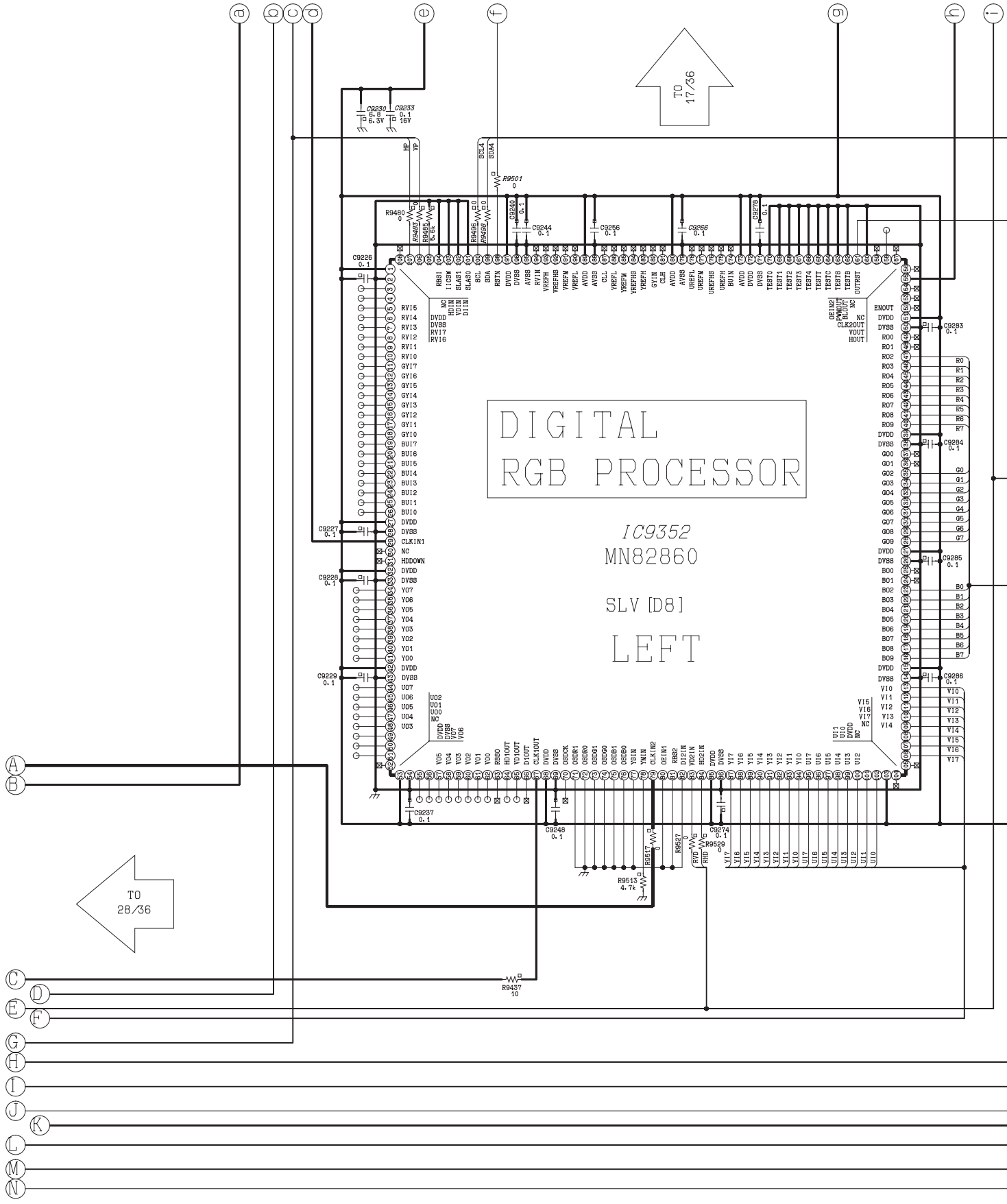
19 20 21

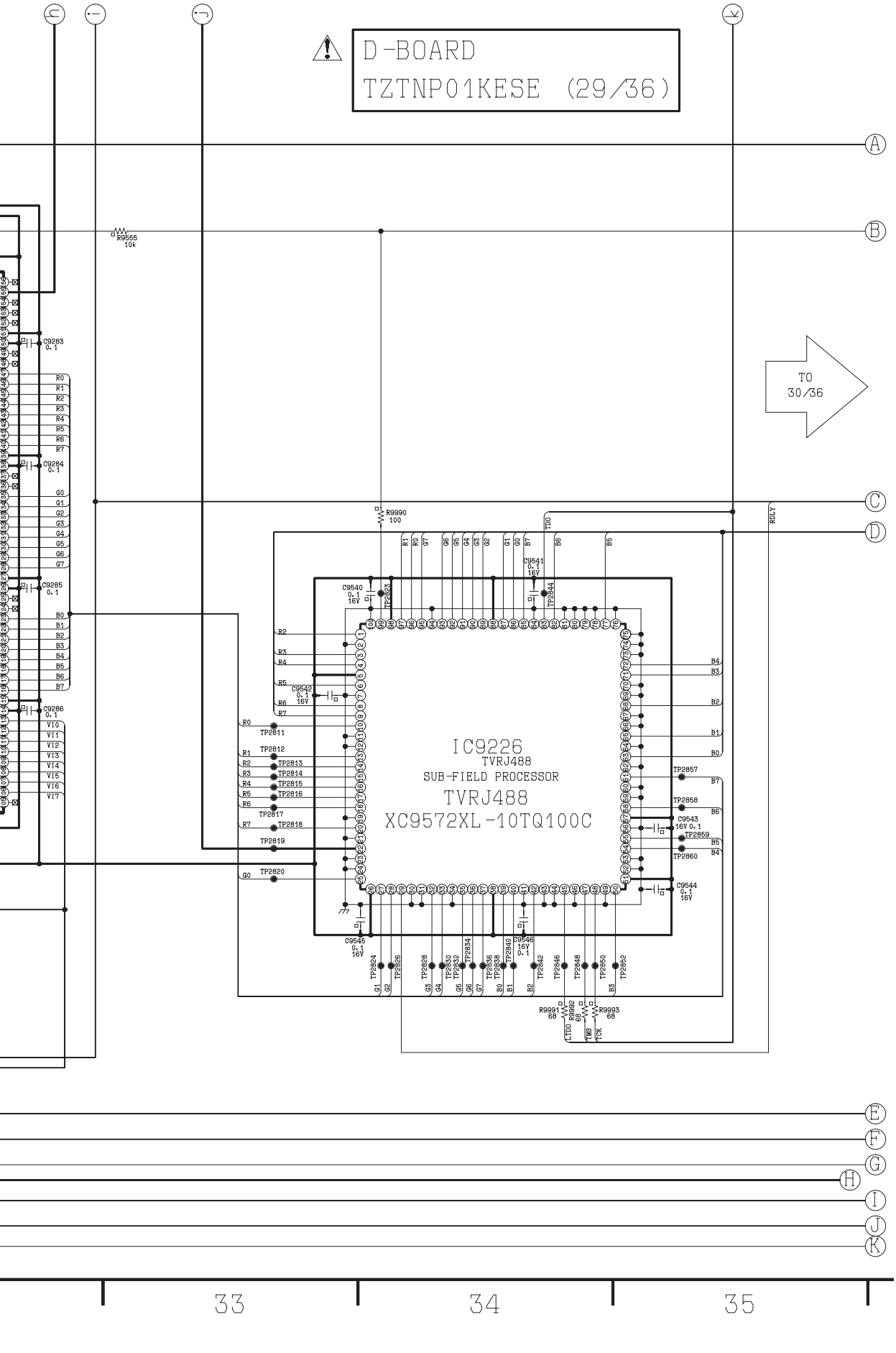
# 13.51. D-Board (28 of 36) Schematic Diagram



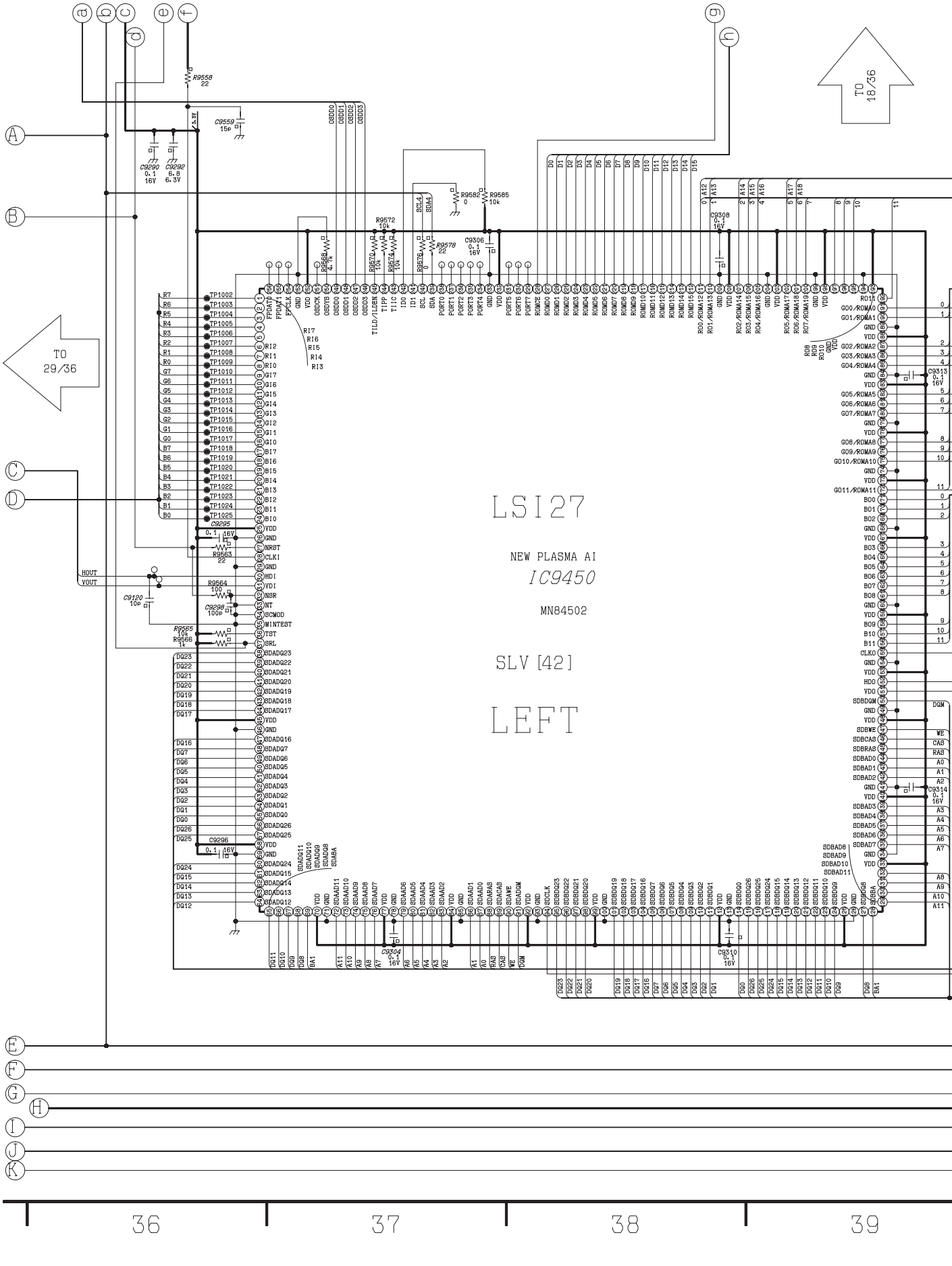

TO 16/36
84MHz
IC9259
C3HBMJ000004
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
50MHz
50MHz
D-BOARD
TZTNP01KESE (28/36)
TO 29/36

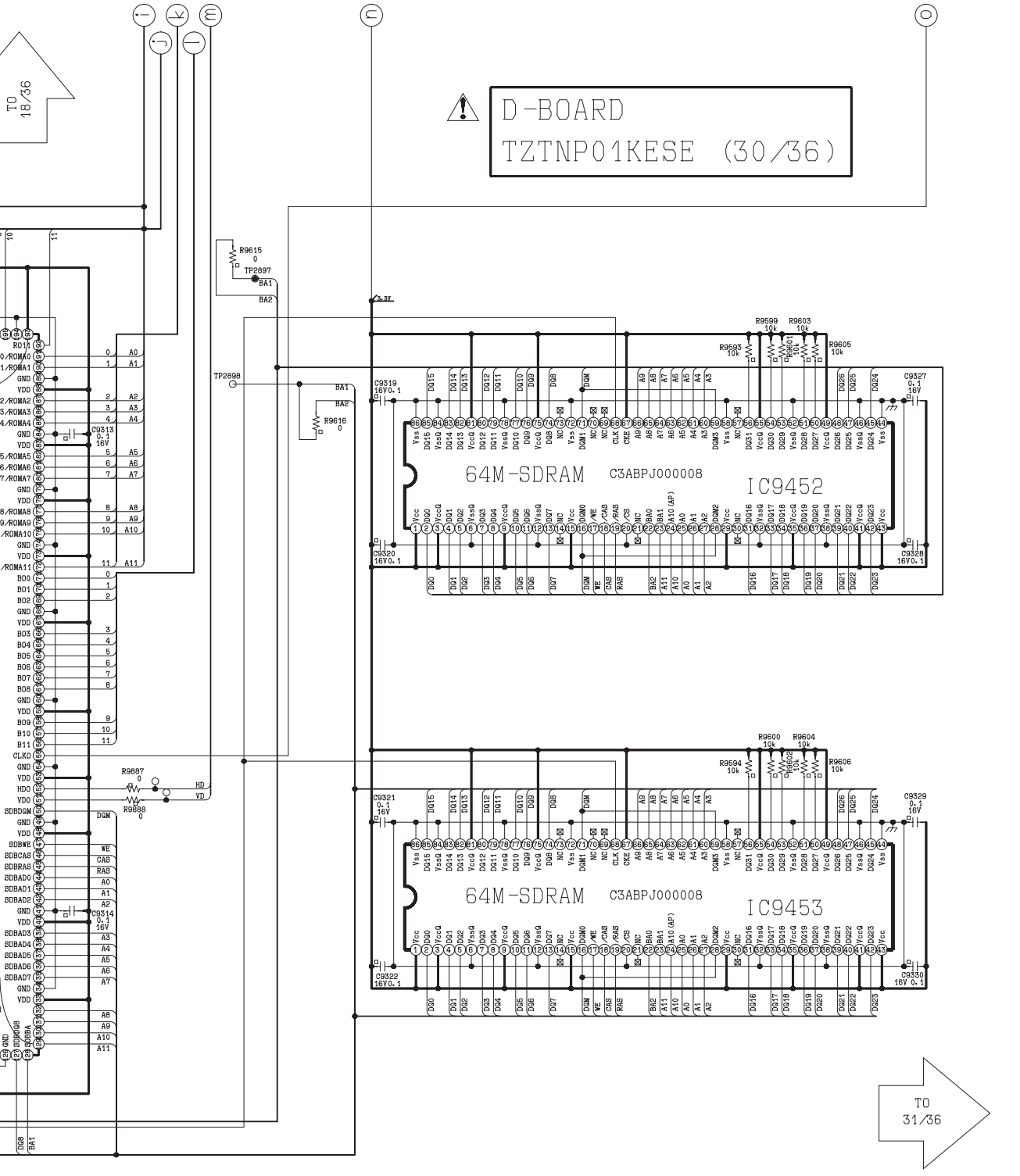
# 13.52. D-Board (29 of 36) Schematic Diagram



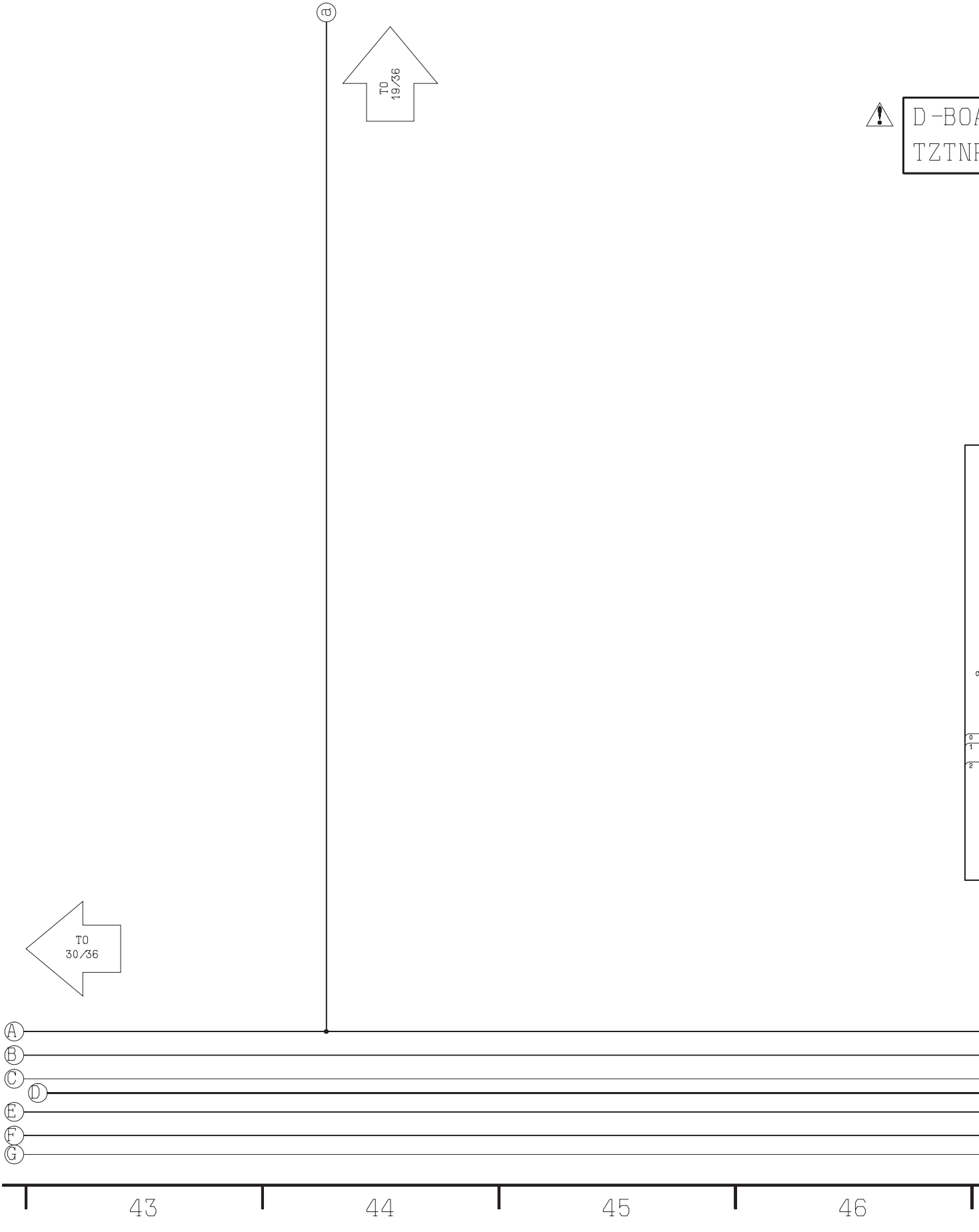

D-BOARD
TZTNP01KESE (29/36)
TO
30/36
IC9226
TVRJ488
SUB-FIELD PROCESSOR
TVRJ488
XC9572XL-10TQ100C
R9555
10k
R9990
100
C9283
C9284
C9285
C9286
C9540
C9541
C9542
C9543
C9544
C9545
C9546
TP2811
TP2812
TP2813
TP2814
TP2815
TP2816
TP2817
TP2818
TP2819
TP2820
TP2857
TP2858
TP2859
TP2860
R9991
R9992
R9993
A
B
C
D
E
F
G
H
I
J
K
33
34
35

# 13.53. D-Board (30 of 36) Schematic Diagram

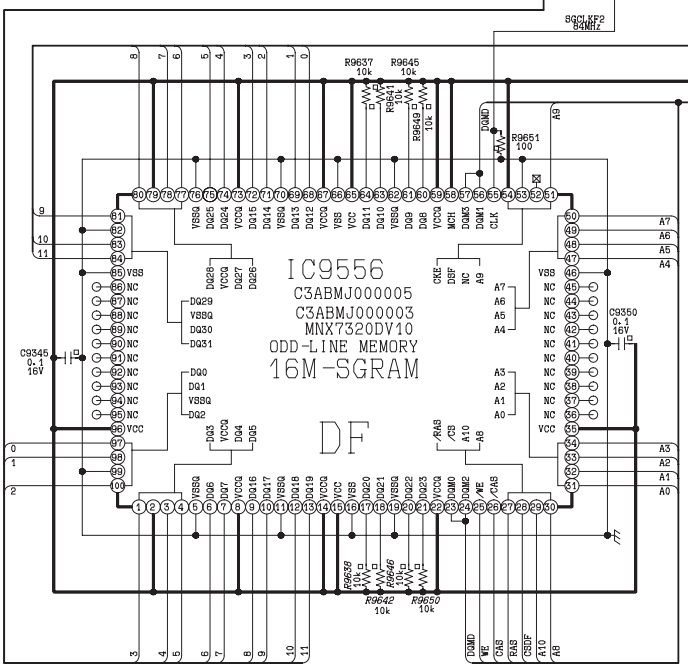



D-BOARD
TZTNP01KESE (30/36)
64M-SDRAM C3ABPJ000008
IC9452
64M-SDRAM C3ABPJ000008
IC9453
TO 18/36
TO 31/36

## 13.54. D-Board (31 of 36) Schematic Diagram



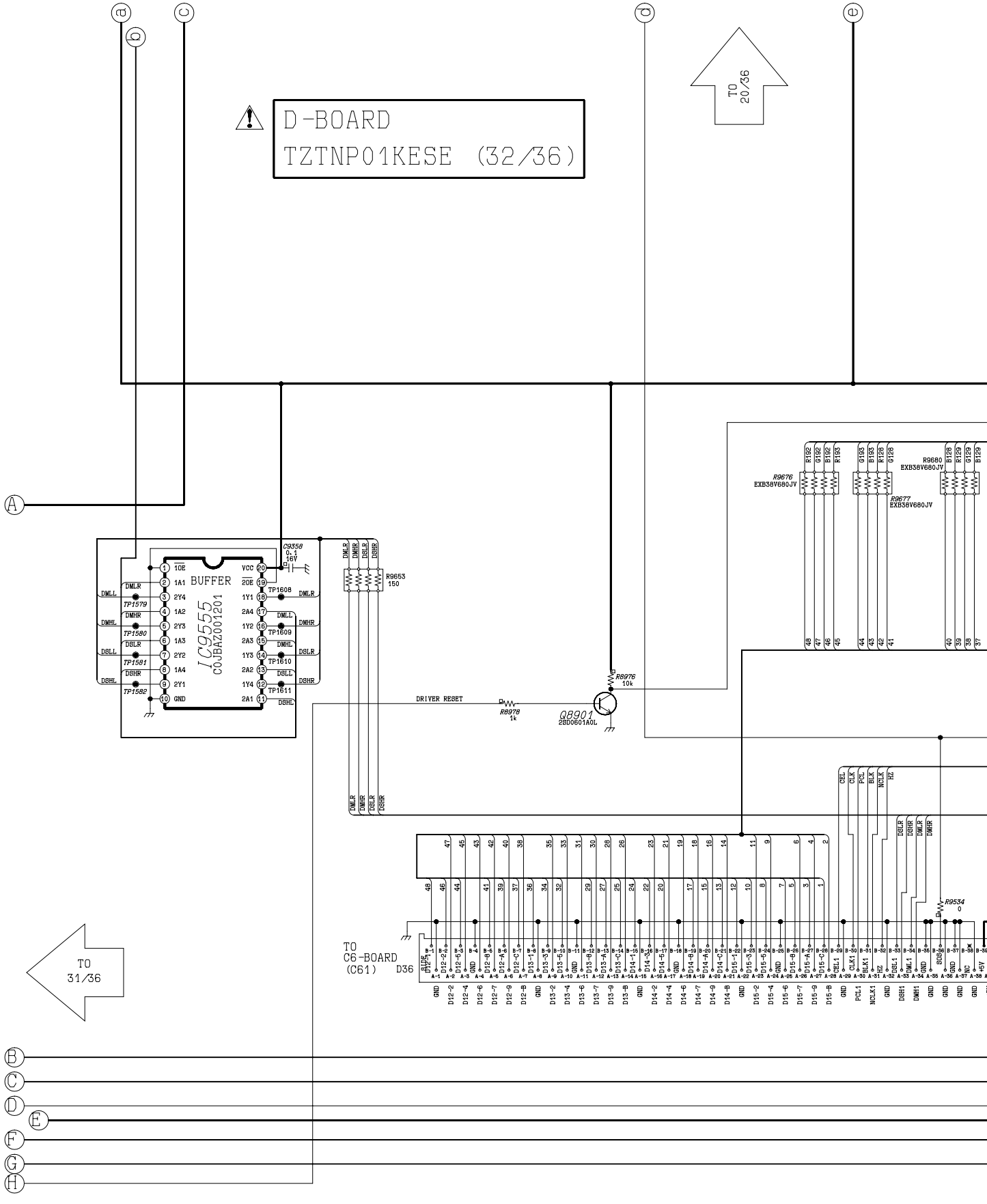
D-BOARD
TZTNP01KESE (31/36)

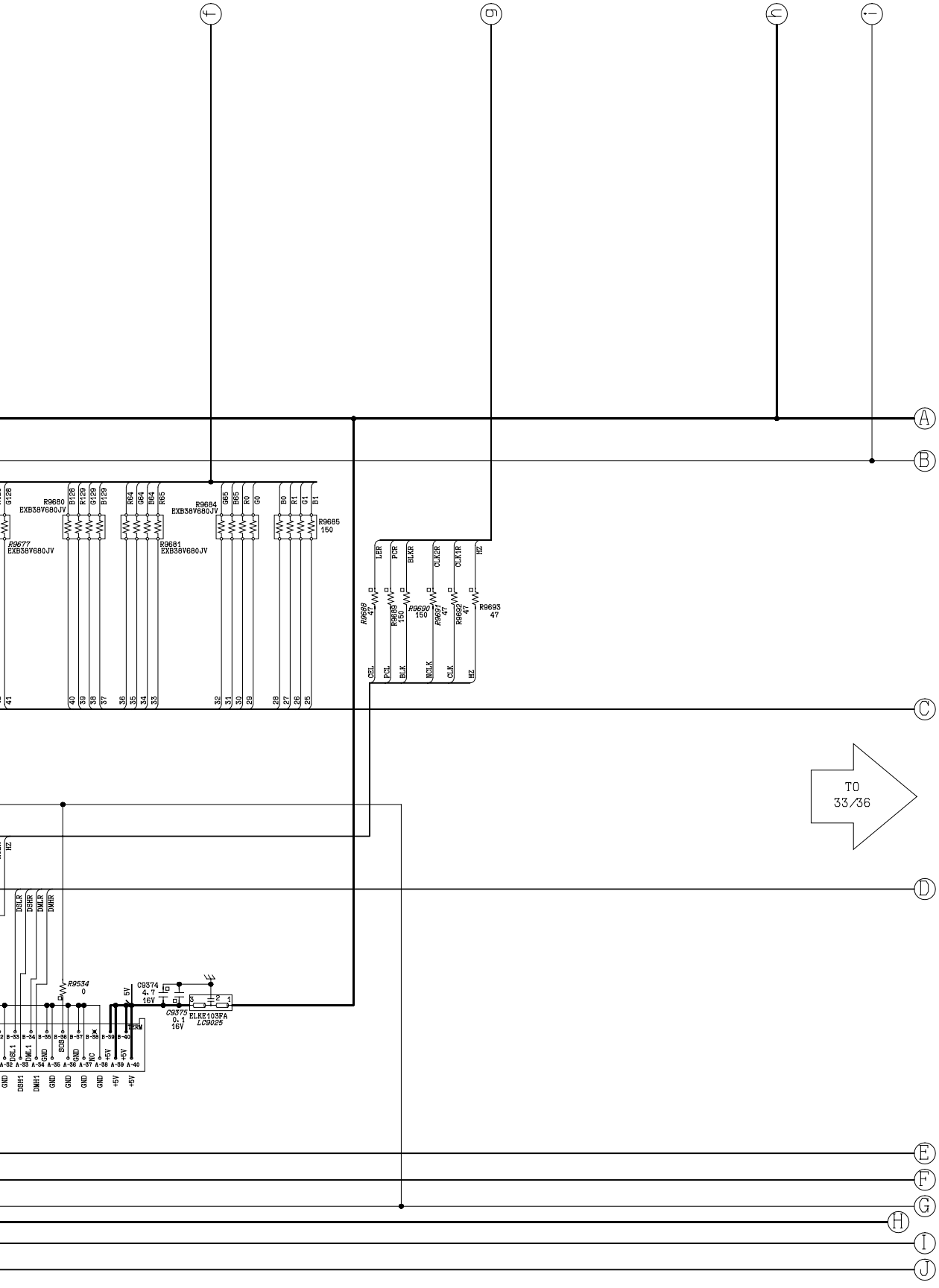



TO
32/36

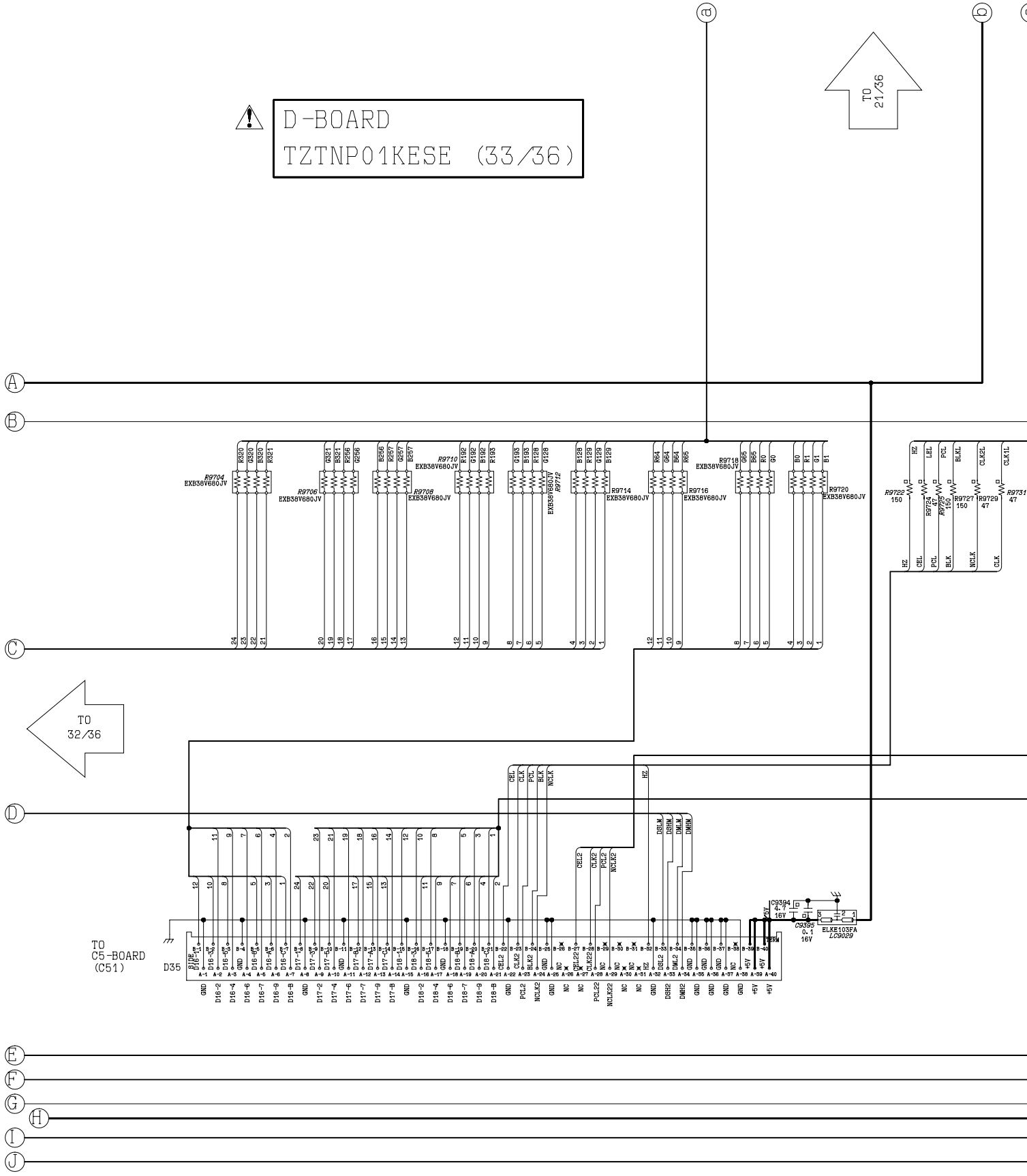
47 48 49

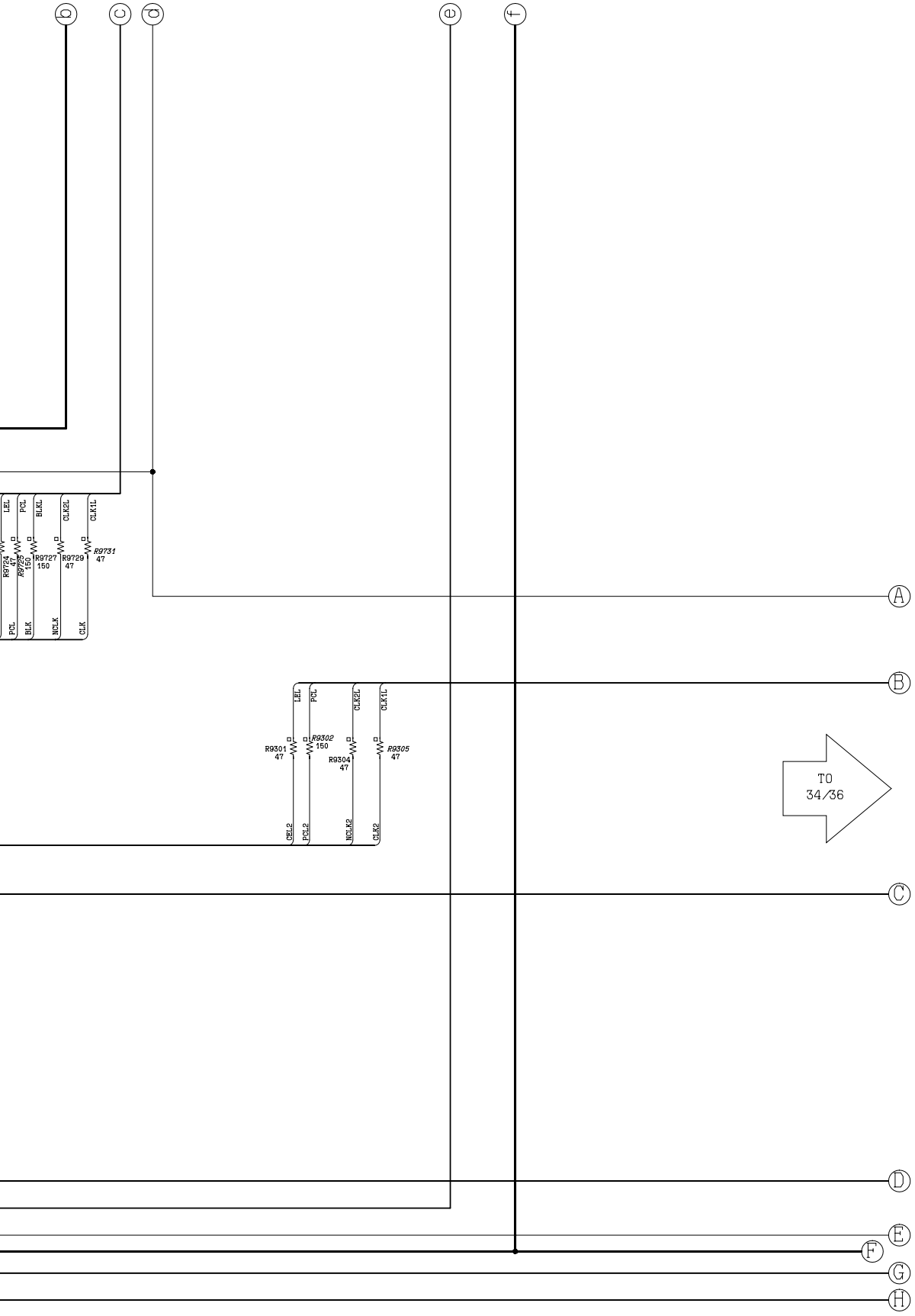
# 13.55. D-Board (32 of 36) Schematic Diagram



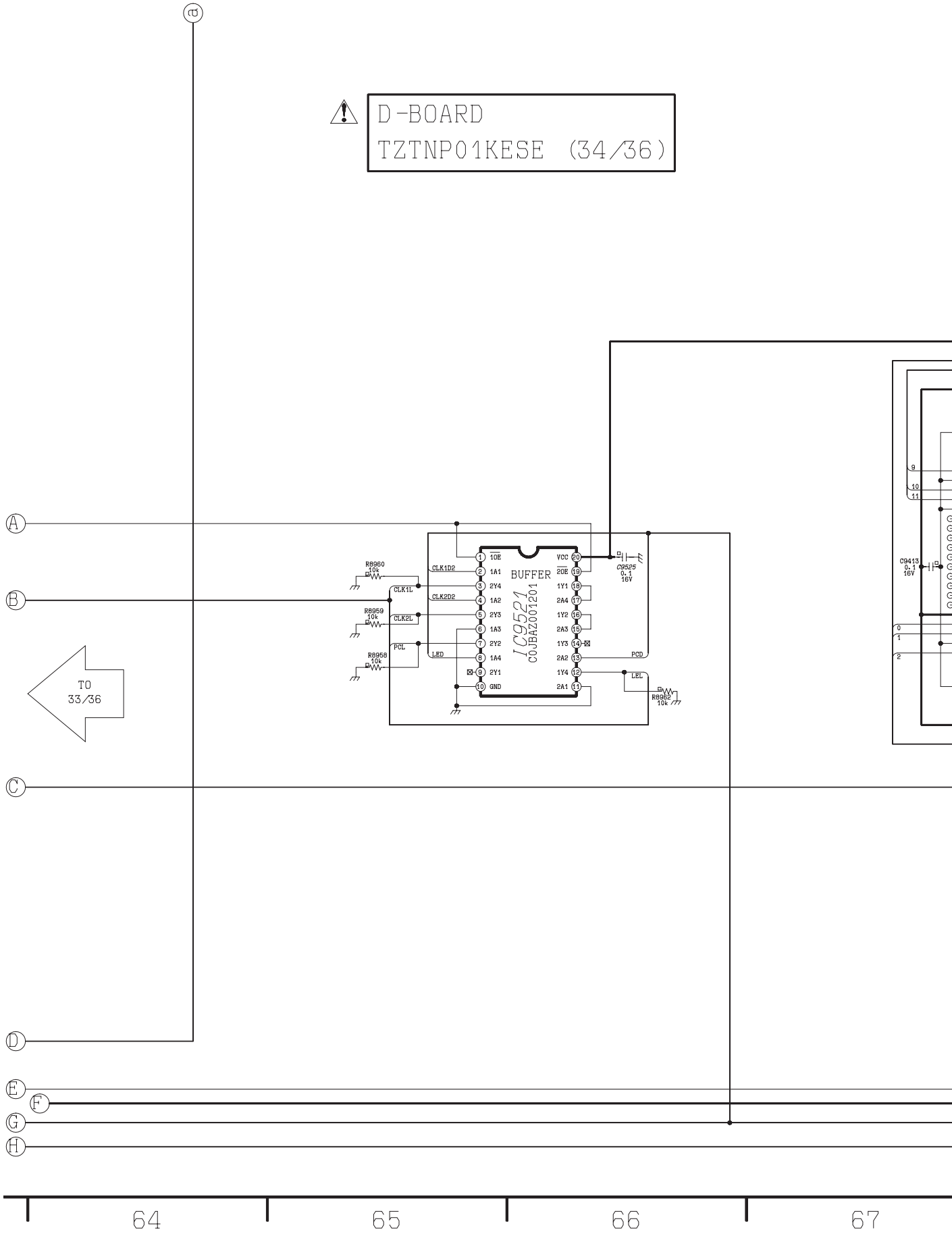

TO
33/36

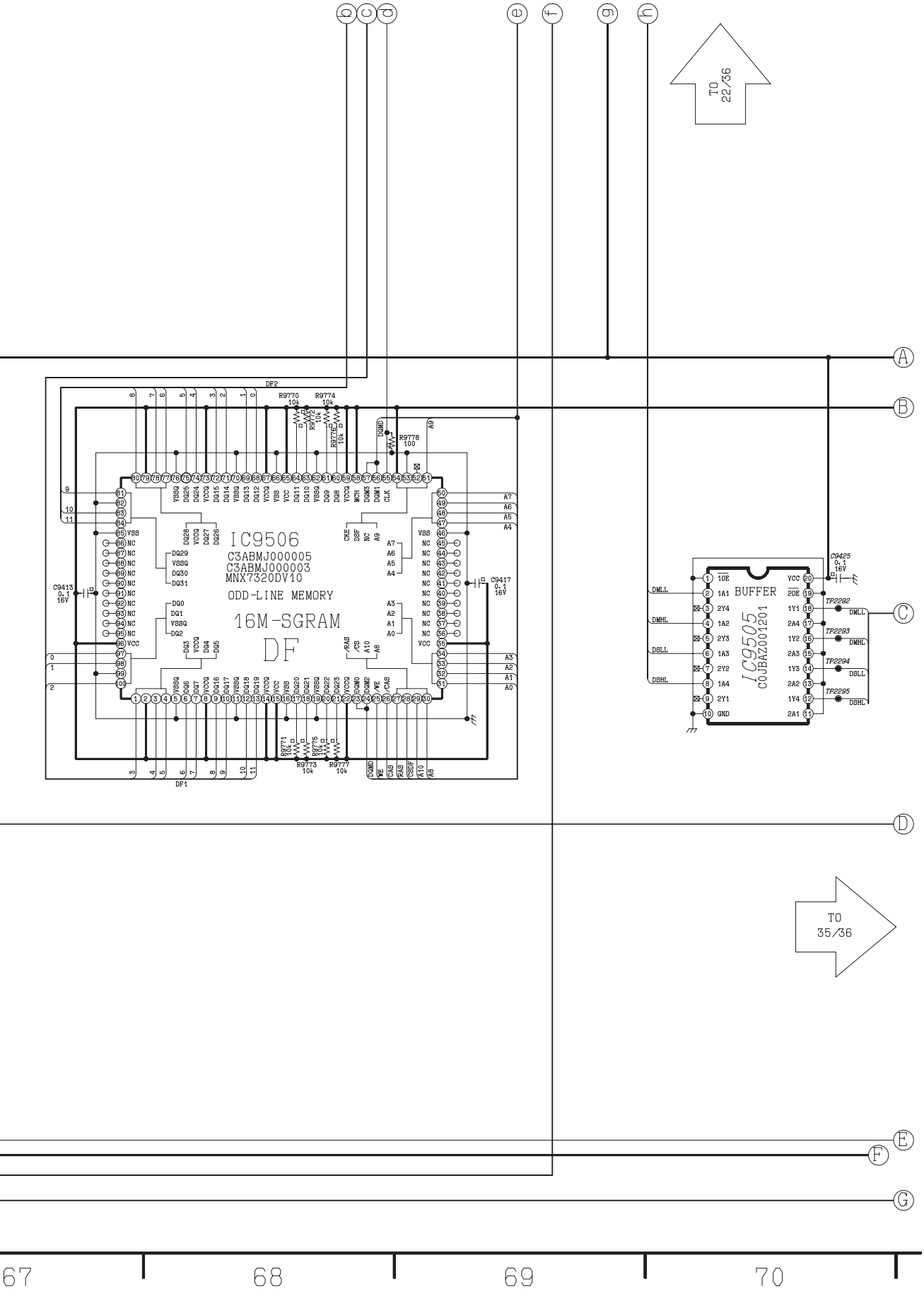
## 13.56. D-Board (33 of 36) Schematic Diagram



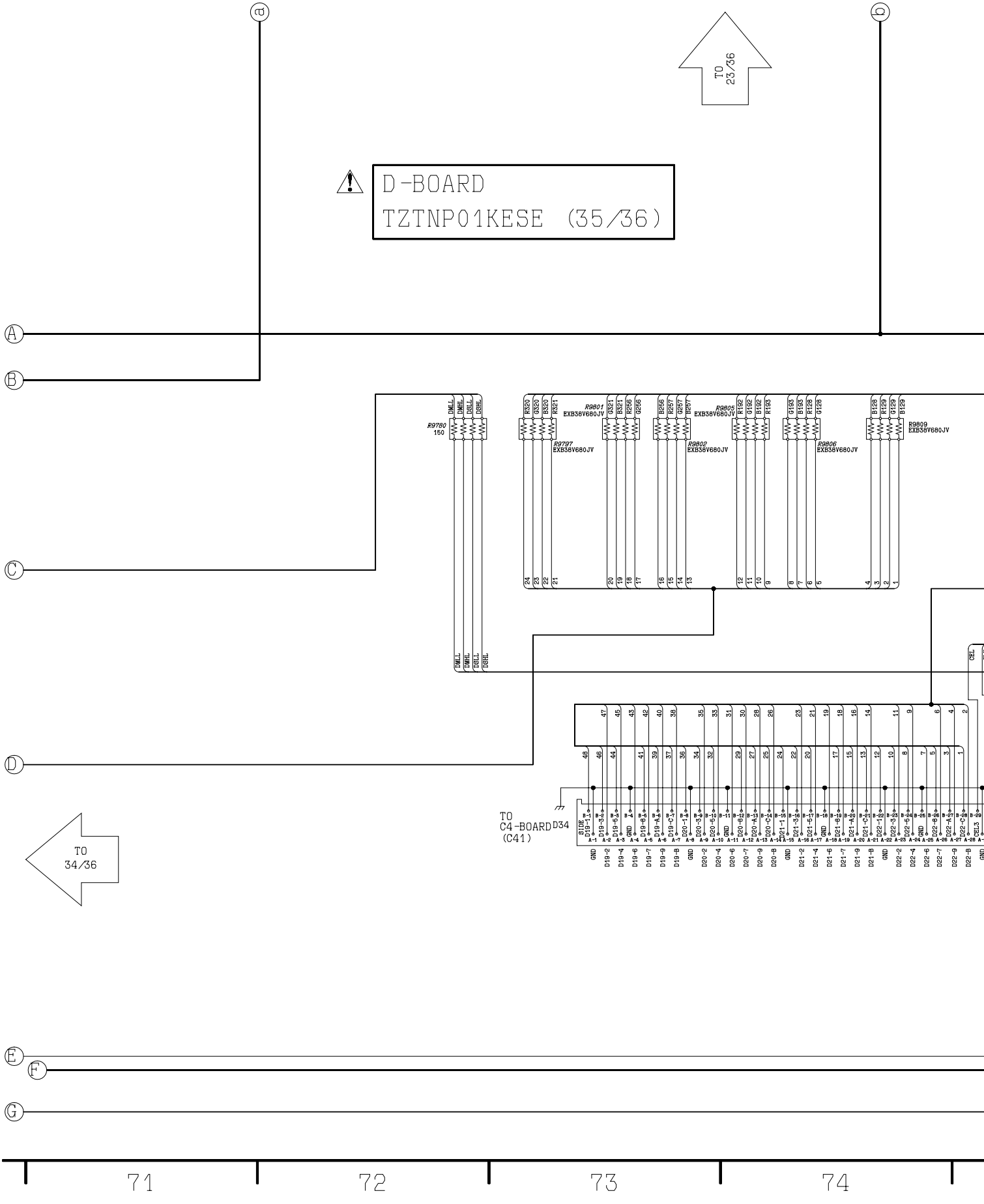

b
c
d
e
f
LEL
PCL
BLKL
CLK2L
CLK1L
R9724
47
R9726
150
R9727
150
R9729
47
R9731
47
PCL
BLK
NCLK
CLK
R9301
47
R9302
150
R9304
47
R9305
47
CBLK2
PCLK2
NCLK2
CLK2
A
B
C
D
E
F
G
H
TO
34/36
61
62
63

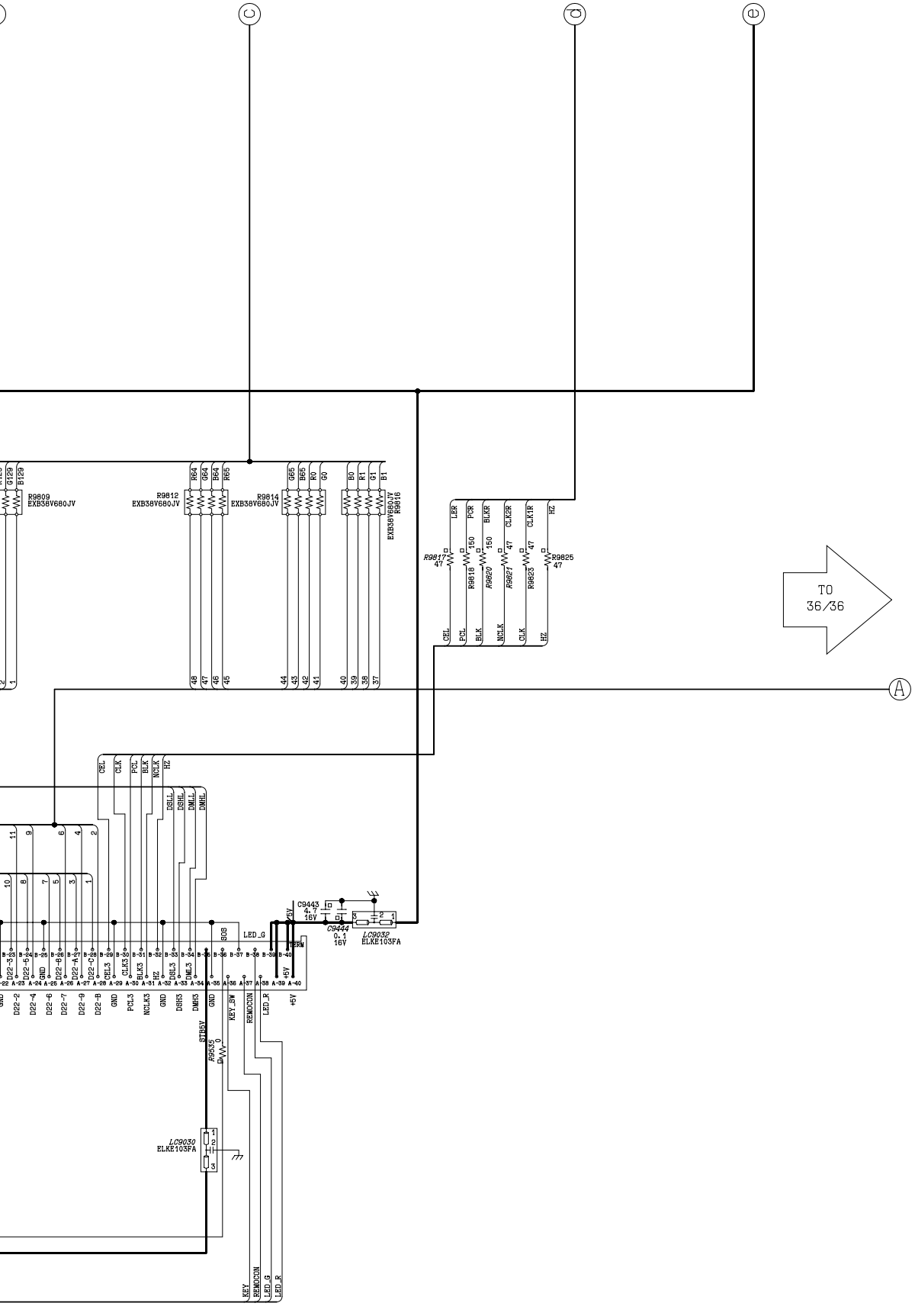
## 13.57. D-Board (34 of 36) Schematic Diagram



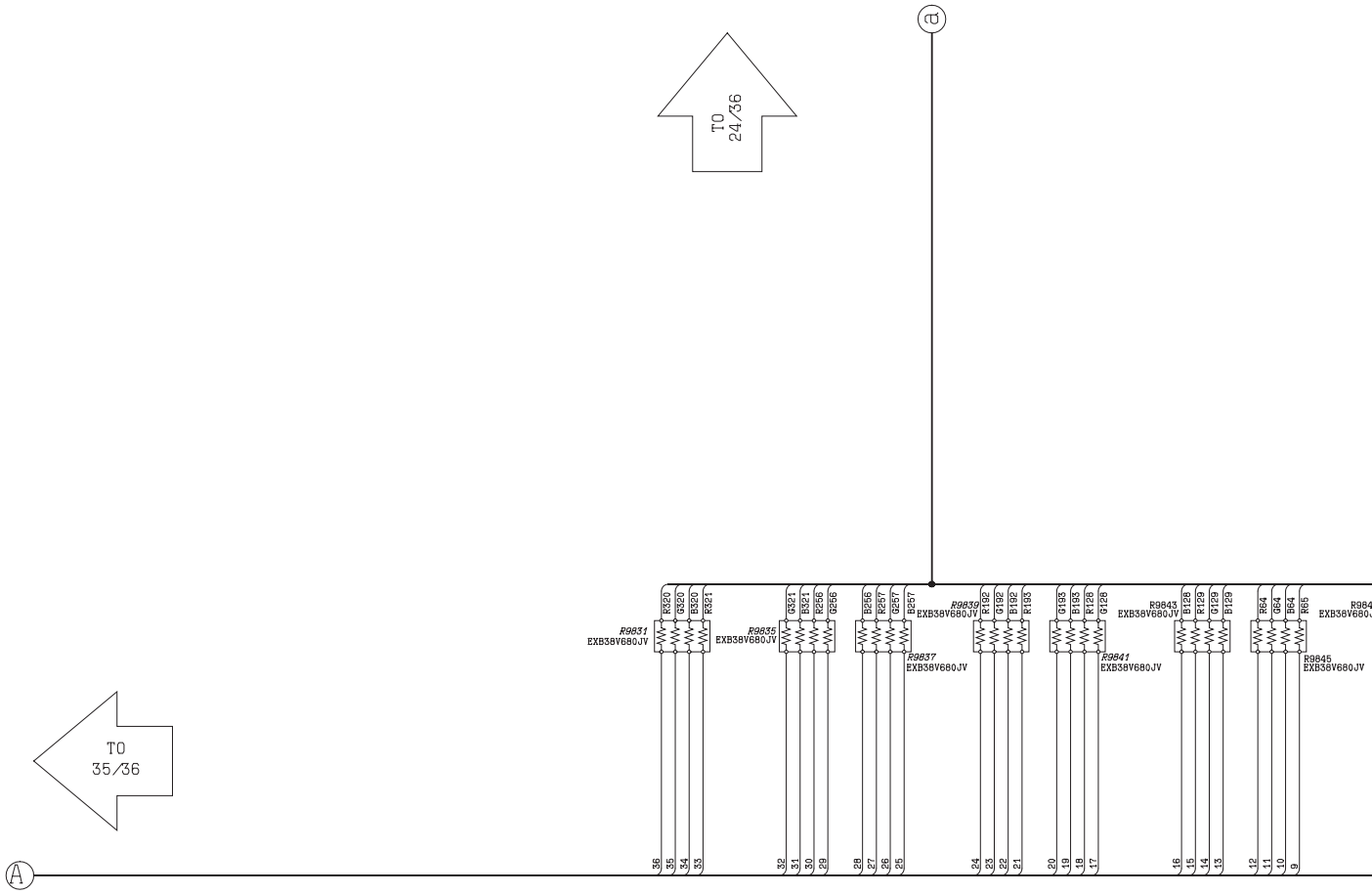

b
c
d
e
f
g
h
TO 22/36
A
B
C
D
E
F
G
DF2
DF1
IC9506
C3ABMJ000005
C3ABMJ000003
MNX7320DV10
ODD-LINE MEMORY
16M-SGRAM
DF
R9770 10k
R9774 10k
R9772 10k
R9776 10k
R9778 100
R9771 10k
R9775 10k
R9773 10k
R9777 10k
C9413 0.1 16V
C9417 0.1 16V
C9425 0.1 16V
BUFFER
IC9505
C0JBAZ001201
DMLL
DMHL
DSLL
DSHL
TP2292
TP2293
TP2294
TP2295
TO 35/36

## 13.58. D-Board (35 of 36) Schematic Diagram

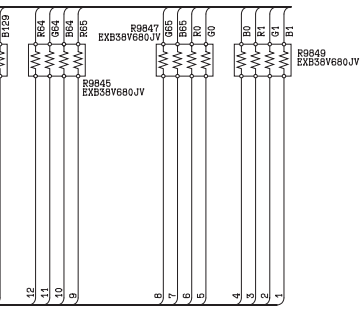



c
d
e
R9809
EXB38V680JV
R9812
EXB38V680JV
R9814
EXB38V680JV
EXB38V680JV
R9816
R9817
47
R9818
150
R9820
150
R9821
47
R9823
47
R9825
47
TO
36/36
A
C9443
4.7
16V
C9444
0.1
16V
LC9032
ELKE103FA
LED_G
LC9030
ELKE103FA
KEY
REMOCON
LED_G
LED_R

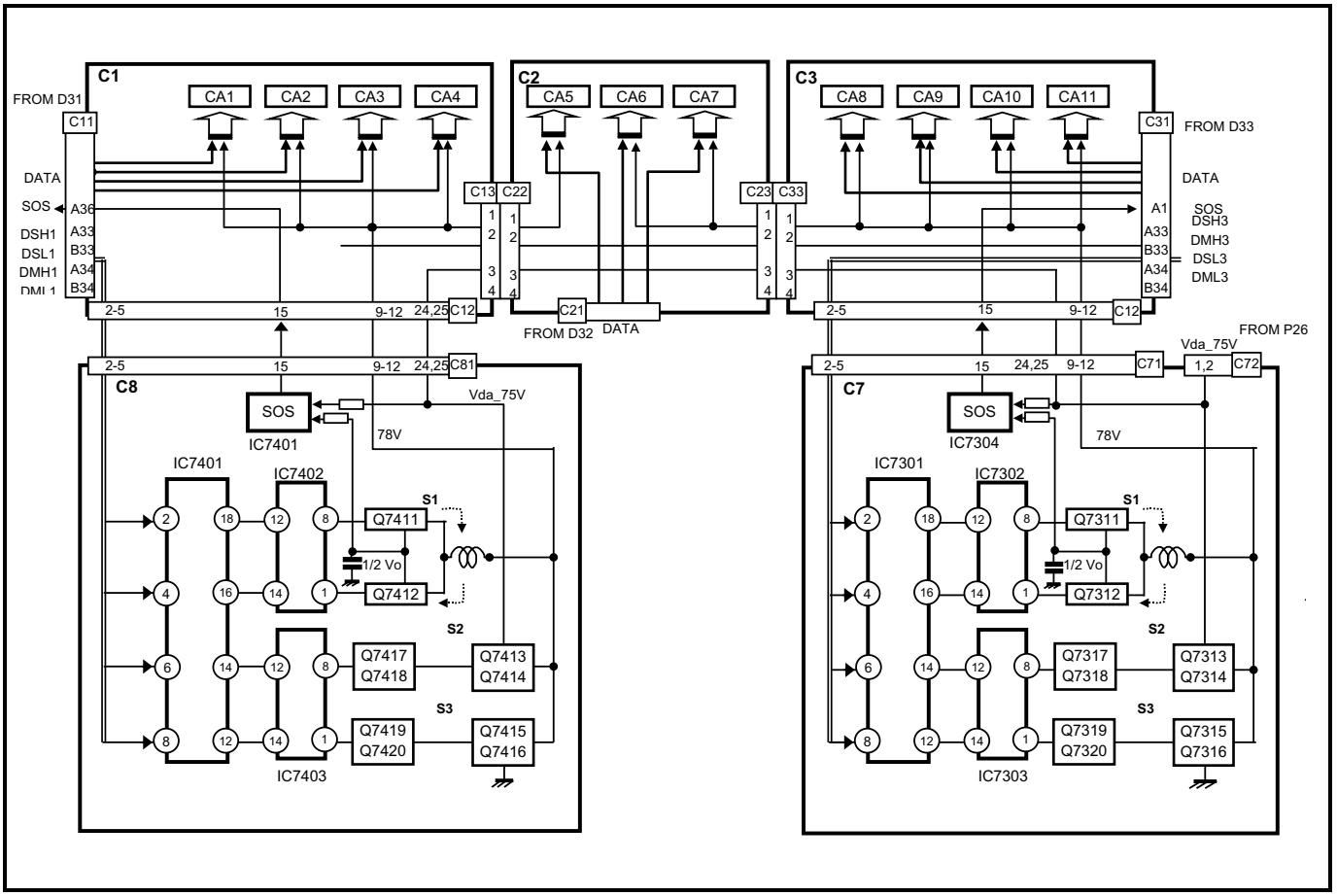
## 13.59. D-Board (36 of 36) Schematic Diagram

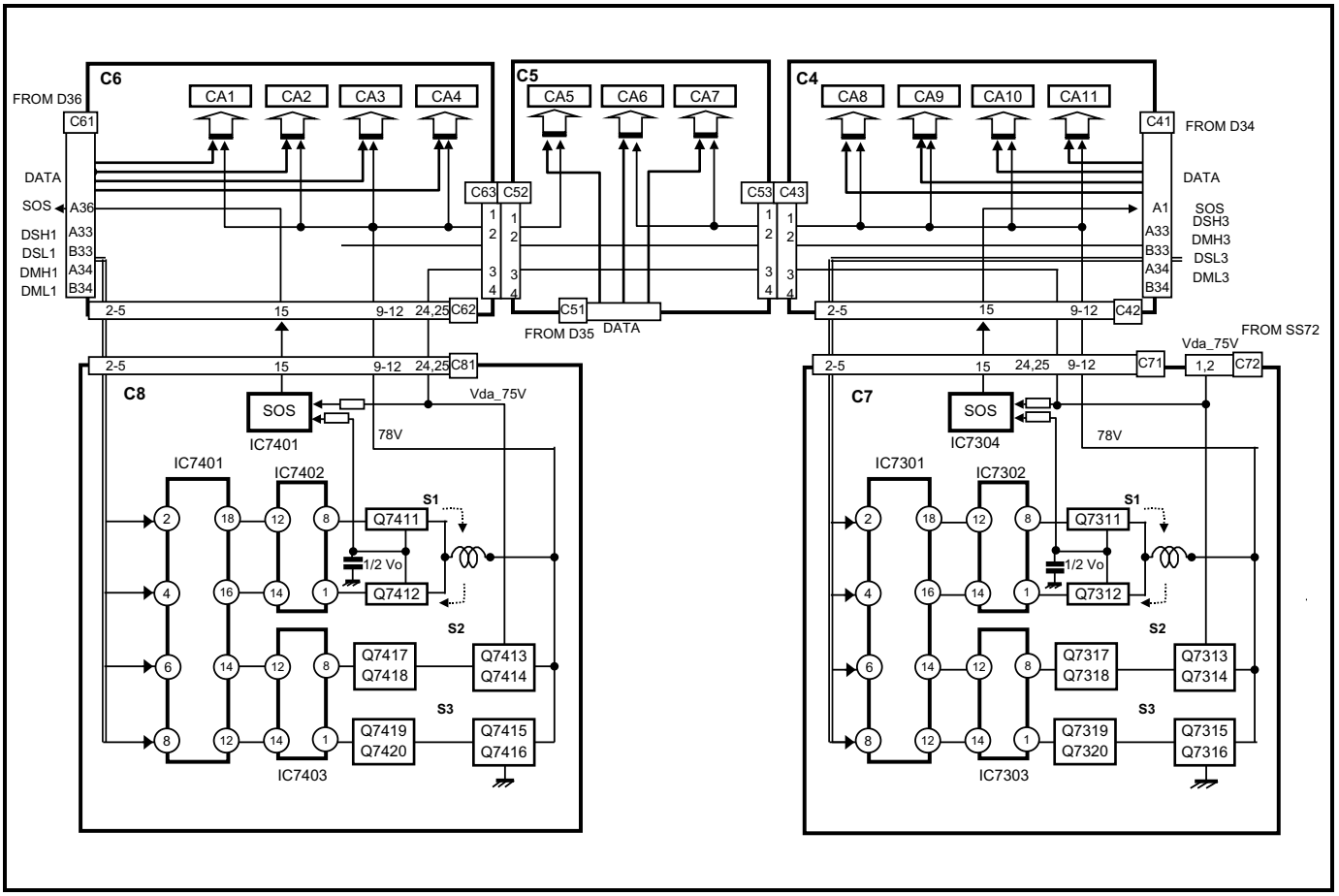


D-BOARD
TZTNP01KESE (36/36)

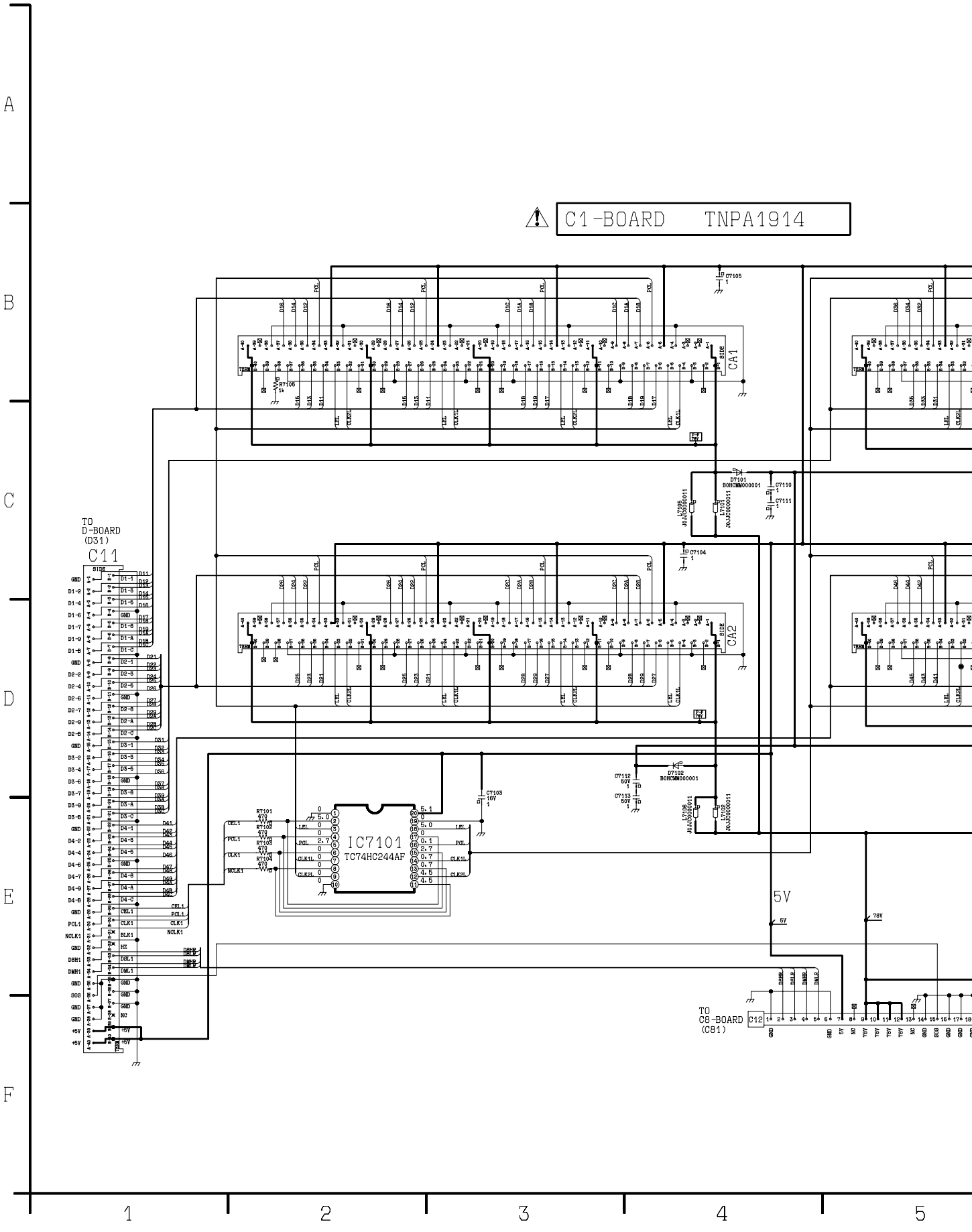


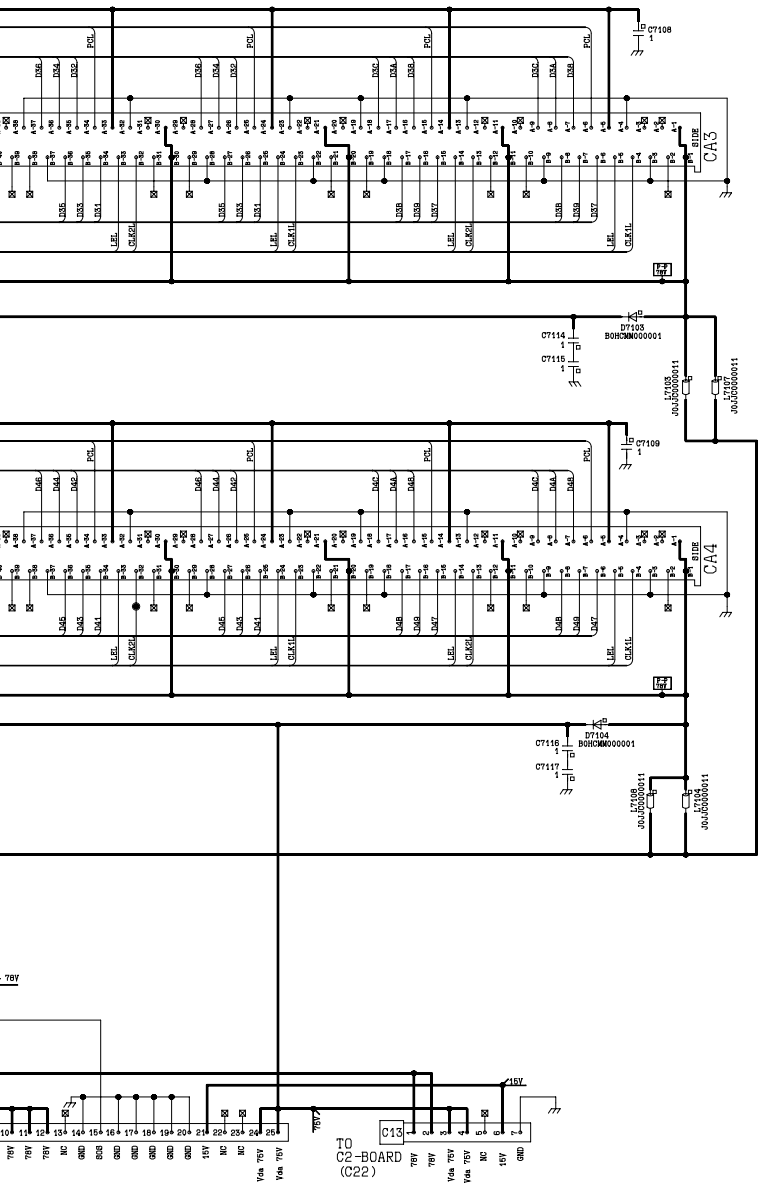
# 13.60. C1, C2, C3, C4, C5, C6, C7 and C8 Board Block Diagram



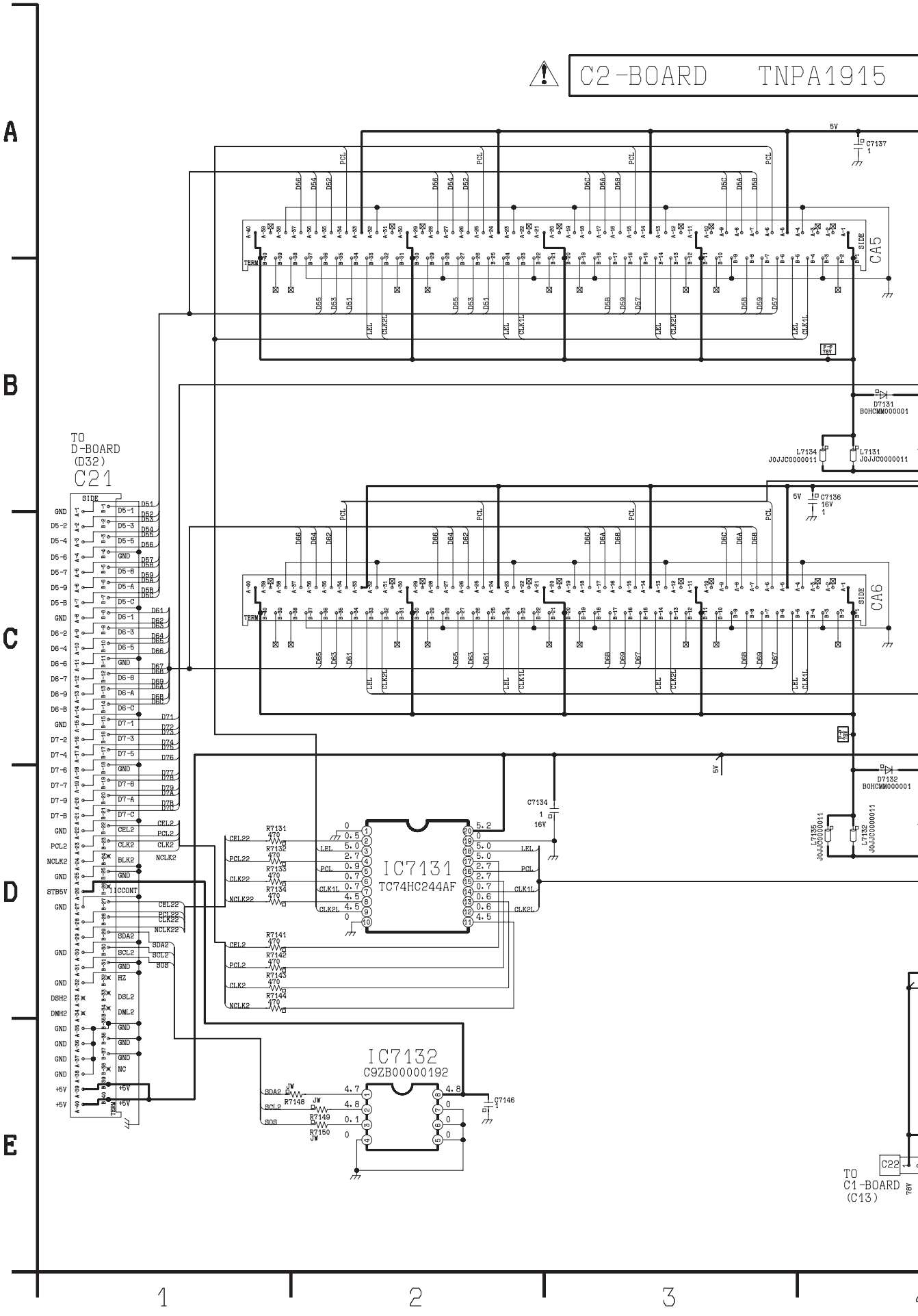

C6
C5
C4
FROM D36
C61
CA1
CA2
CA3
CA4
CA5
CA6
CA7
CA8
CA9
CA10
CA11
C41
FROM D34
DATA
SOS
A36
DSH1
A33
DSL1
B33
DMH1
A34
DML1
B34
C63
C52
C53
C43
A1
SOS
DSH3
DMH3
DSL3
DML3
2-5
15
9-12
24,25
C62
C51
FROM D35
DATA
C42
FROM SS72
Vda_75V
C81
C71
1,2
C72
C8
C7
SOS
IC7401
IC7304
78V
IC7401
IC7402
IC7301
IC7302
S1
Q7411
Q7412
Q7311
Q7312
1/2 Vo
S2
Q7417
Q7418
Q7413
Q7414
Q7317
Q7318
Q7313
Q7314
S3
Q7419
Q7420
Q7415
Q7416
Q7319
Q7320
Q7315
Q7316
IC7403
IC7303

# 13.61. C1-Board Schematic Diagram

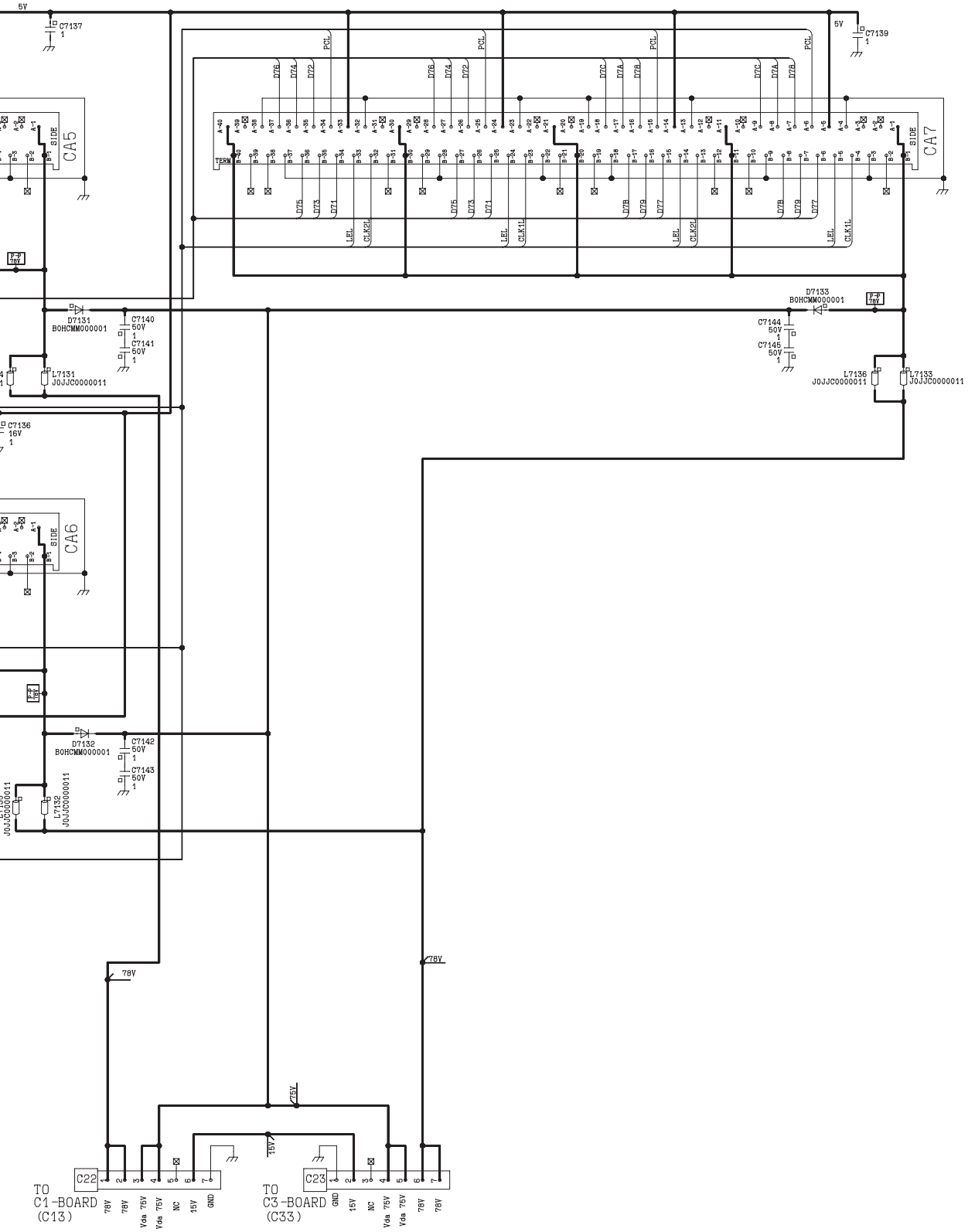



C7108
CA3
C7114
C7115
D7103
B0HCMM000001
L7103
L7107
C7109
CA4
C7116
C7117
D7104
B0HCMM000001
L7108
L7104
TO
C2-BOARD
(C22)
C13

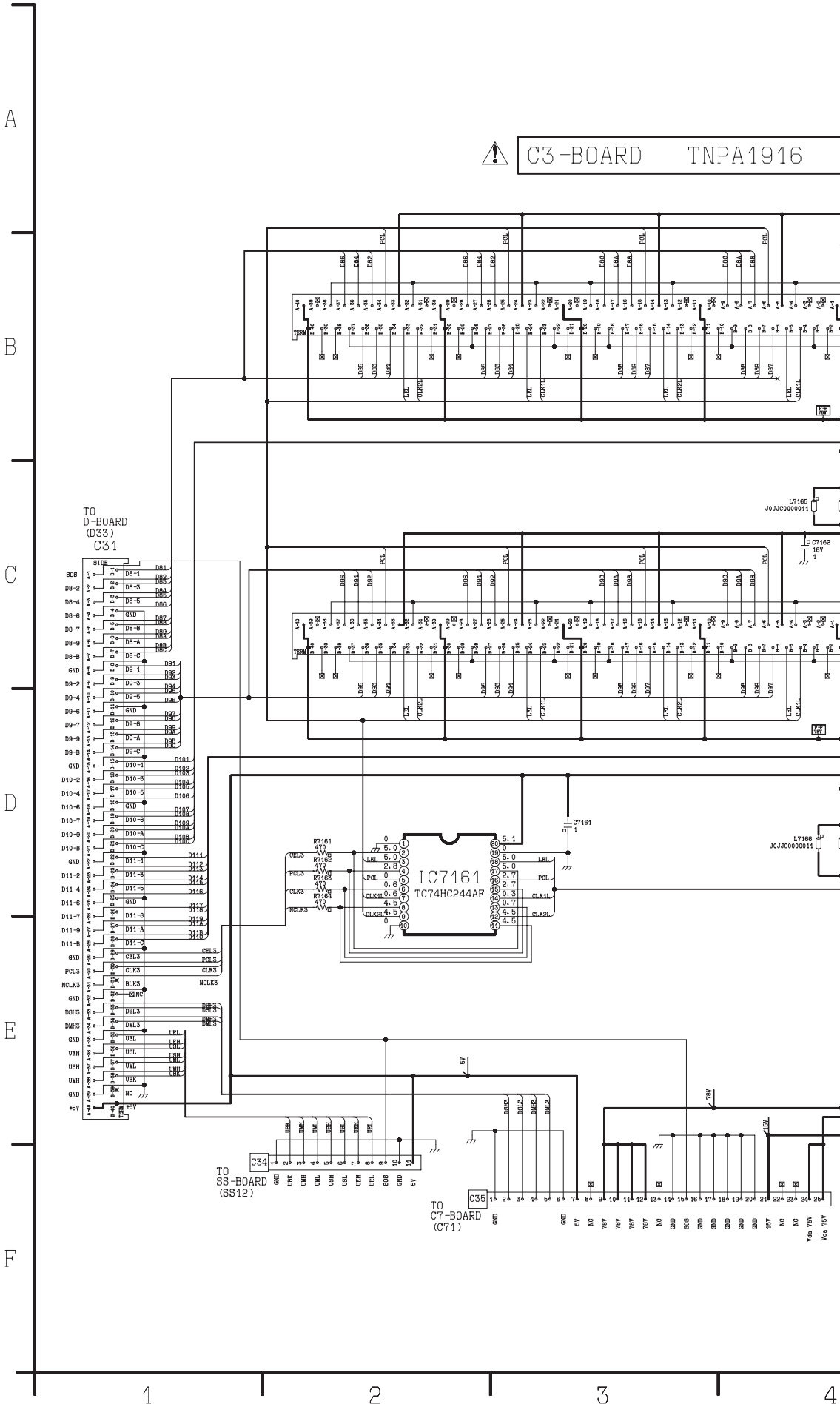
## 13.62. C2-Board Schematic Diagram



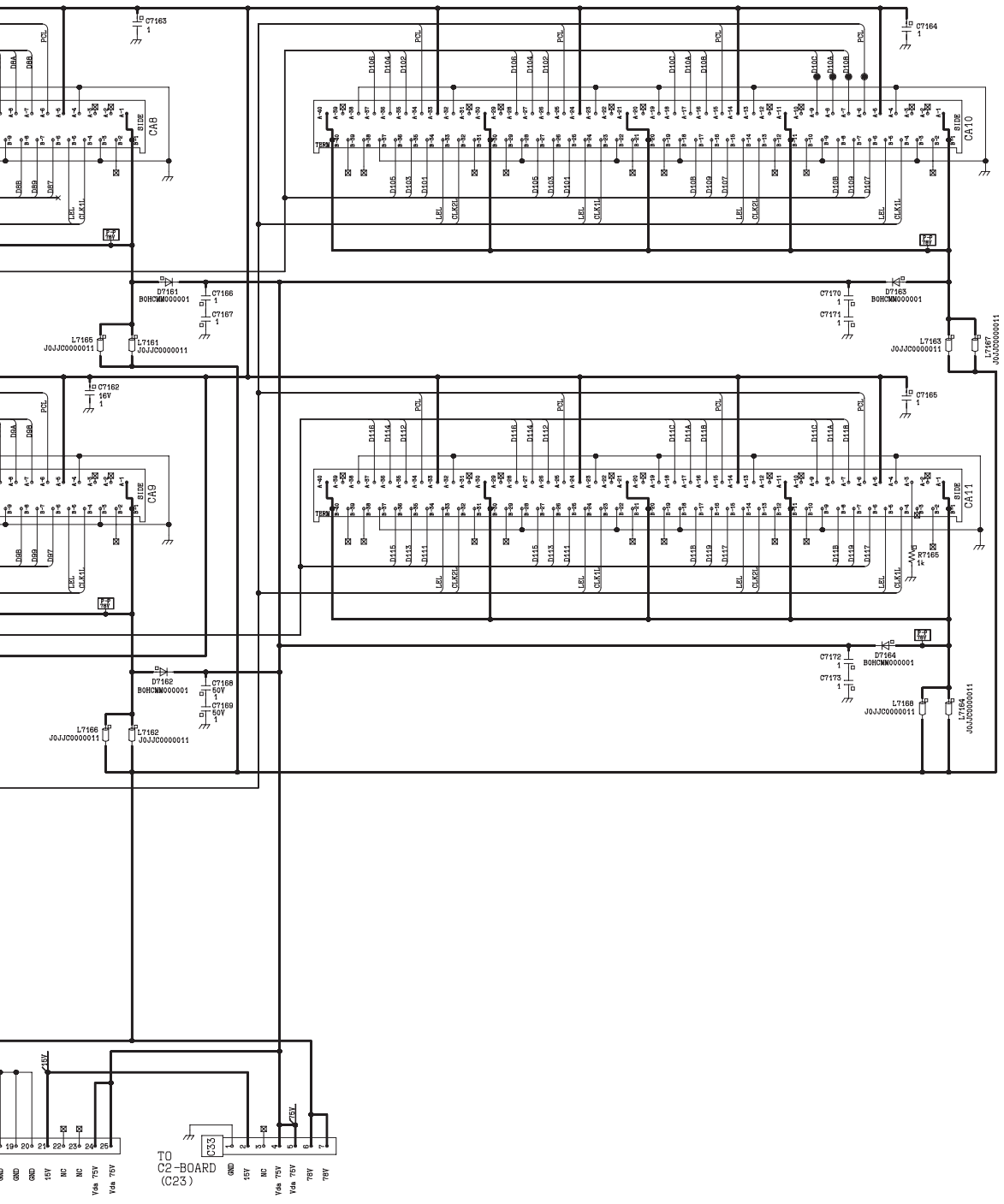
A1915


5V
C7137
1
C7139
CA5
CA7
CA6
SIDE
TERM
PCL
D7131
BOHCMM000001
C7140
50V
C7141
L7131
J0JJC0000011
D7133
C7144
C7145
L7136
L7133
C7136
16V
D7132
C7142
C7143
L7132
78V
15V
TO
C1-BOARD
(C13)
C22
TO
C3-BOARD
(C33)
C23
GND
NC
Vda

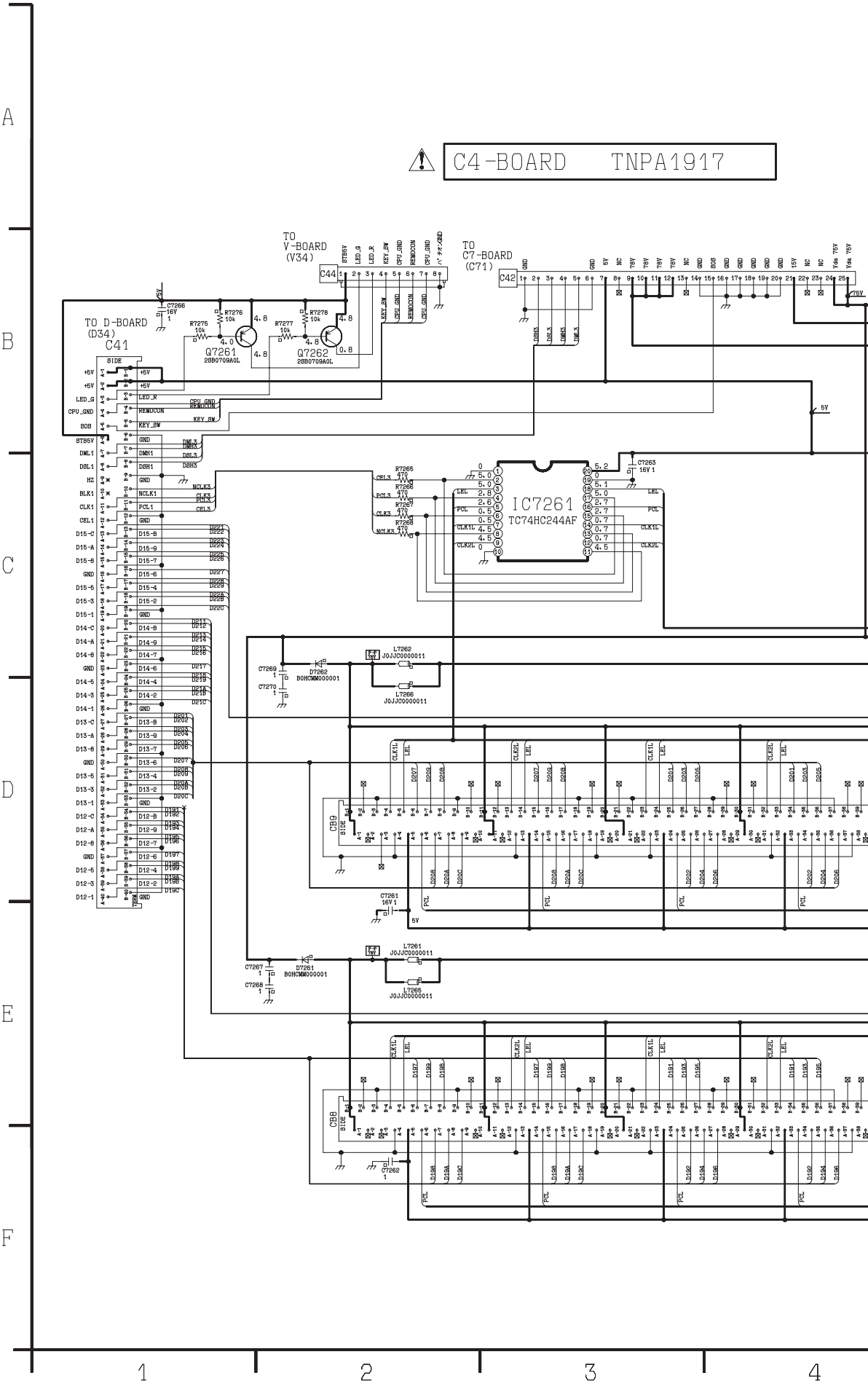
## 13.63. C3-Board Schematic Diagram

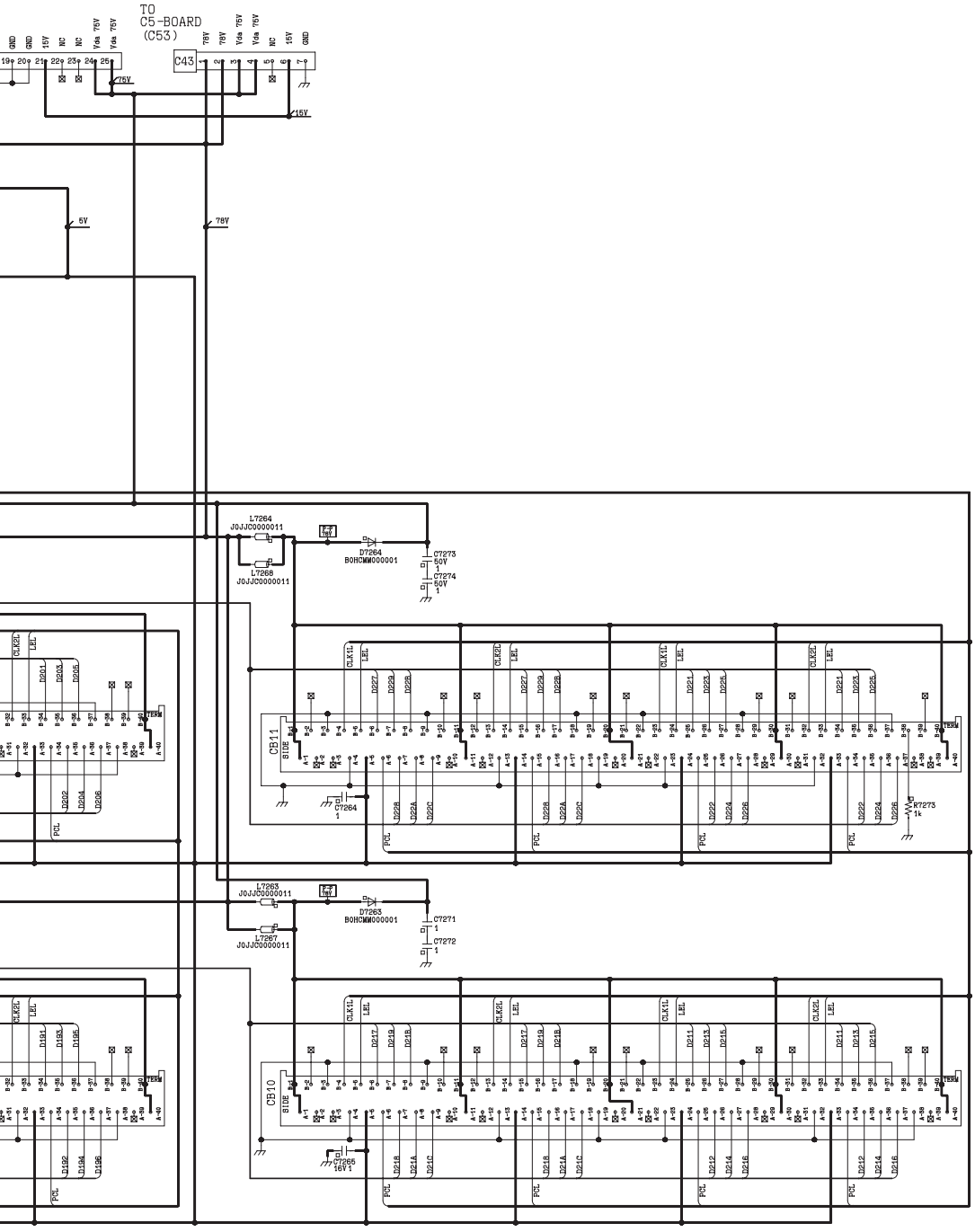


PA1916

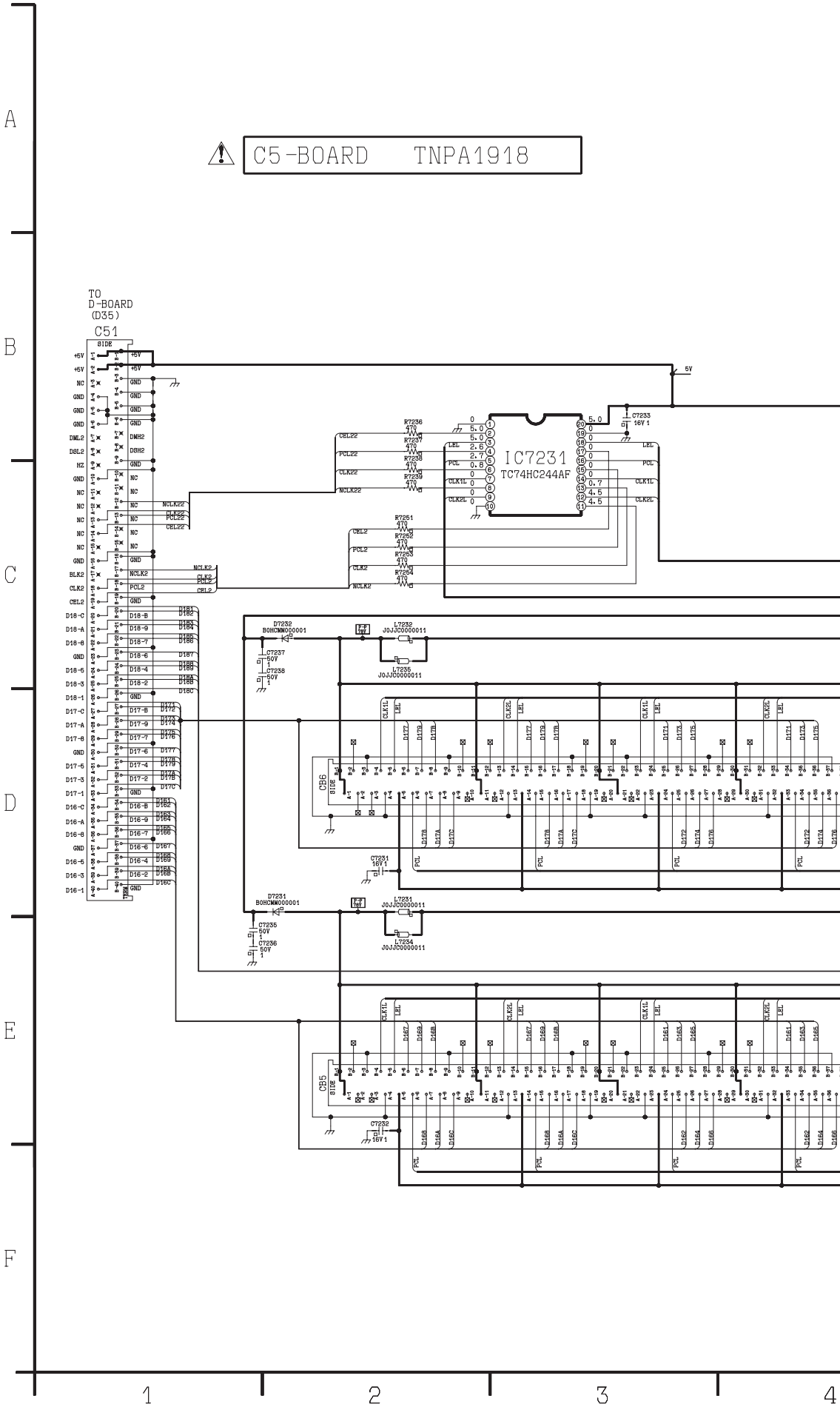

C7163
C7164
C7162
C7165
D7161
D7163
D7162
D7164
C7166
C7167
C7170
C7171
C7168
C7169
C7172
C7173
L7165
L7161
L7163
L7167
L7166
L7162
L7168
L7164
R7165
CA8
CA10
CA9
CA11
TO
C2-BOARD
(C23)
C33

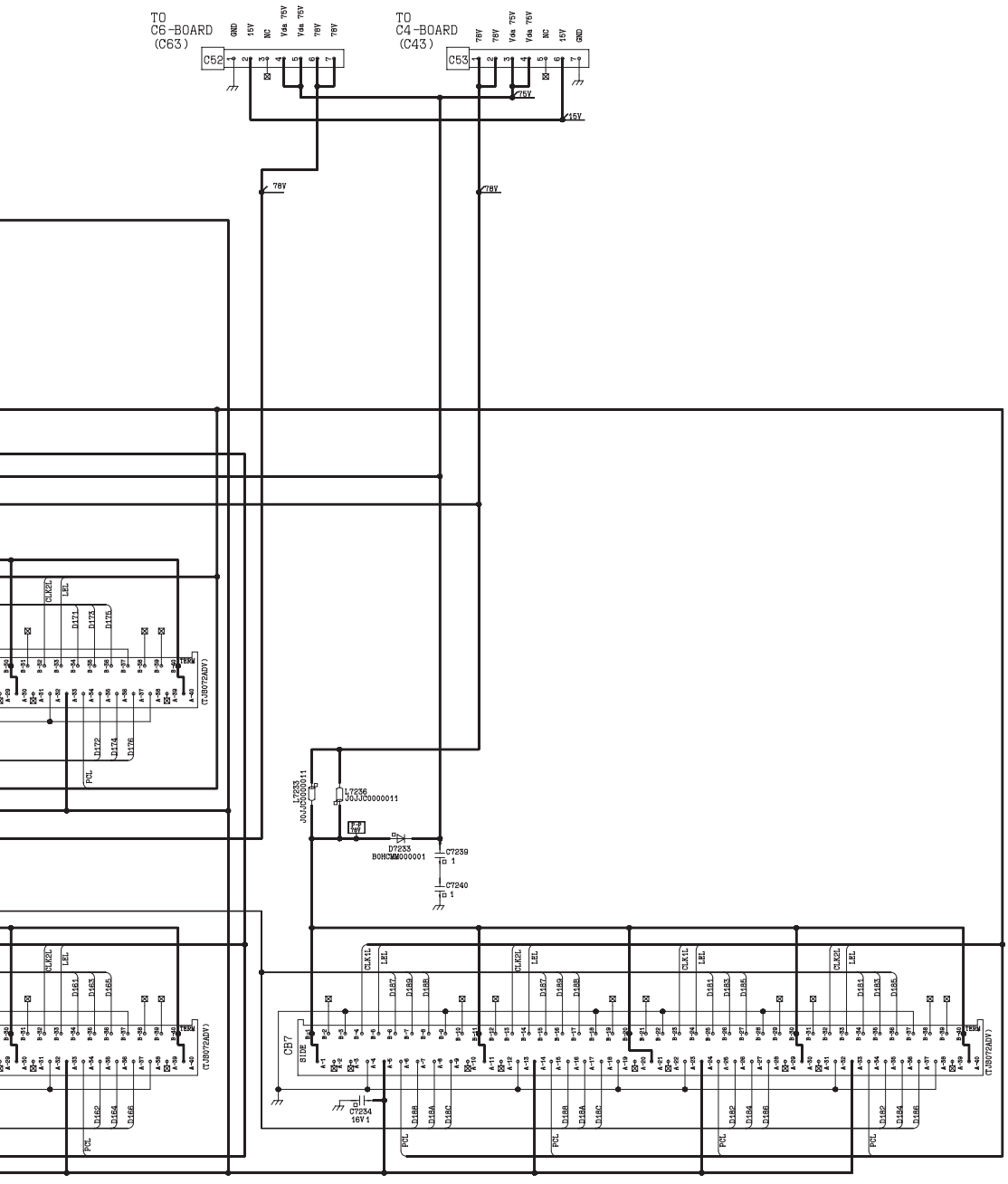
## 13.64. C4-Board Schematic Diagram



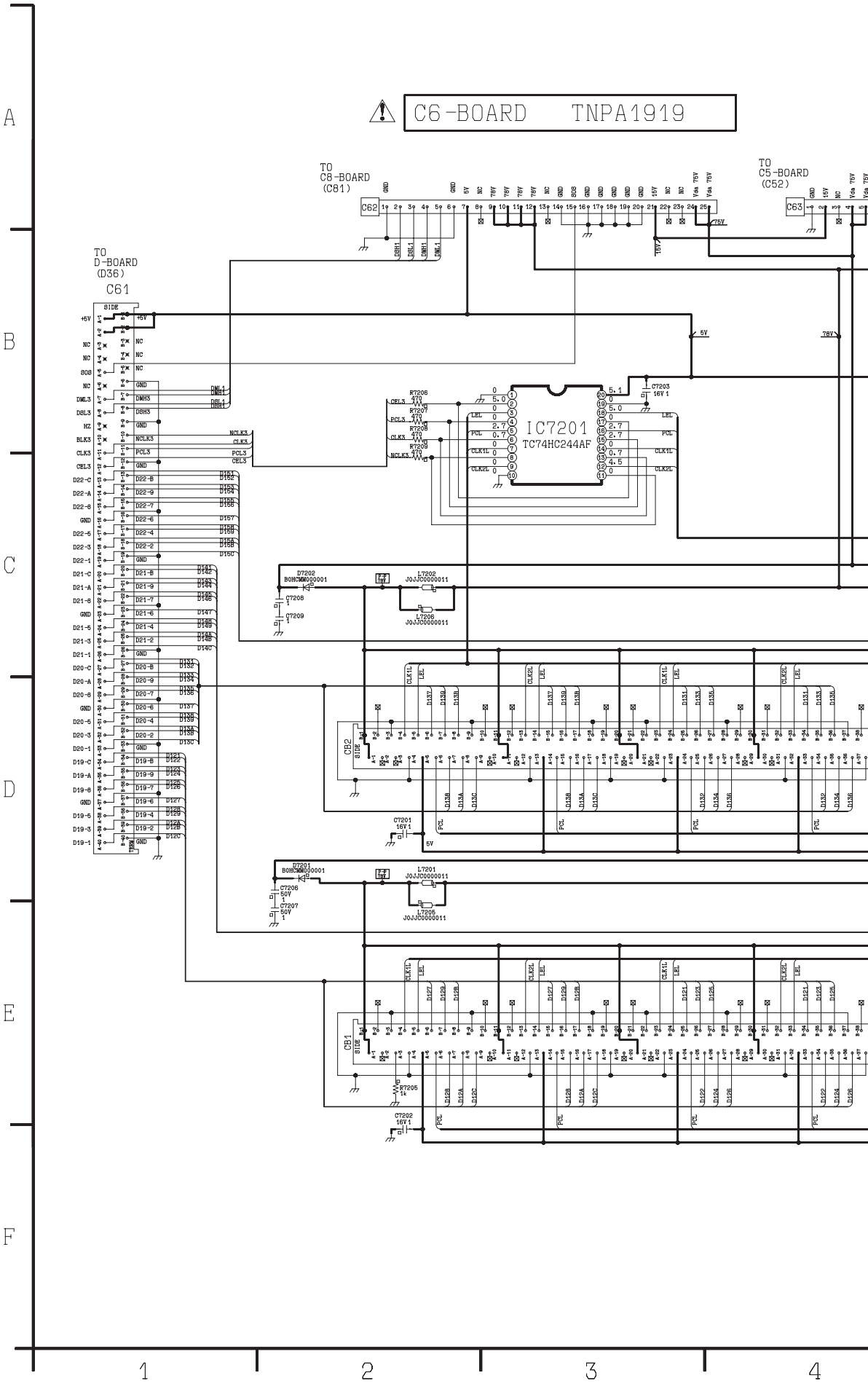

TO
C5-BOARD
(C53)
C43
GND
GND
15V
NC
NC
Vda 75V
Vda 75V
78V
78V
Vda 75V
Vda 75V
NC
15V
GND
75V
15V
5V
78V
L7264
J0JJC0000011
D7264
B0HCMM000001
C7273
50V
1
C7274
50V
1
L7268
J0JJC0000011
CB11
B10E
CLK2L
LE
D201
D203
D205
D202
D204
D206
CLK1L
LE
D227
D229
D228
D222
D224
D226
D221
D223
D225
D228A
D228C
D222A
D222C
C7264
1
R7273
1k
PCL
TEXM
L7263
J0JJC0000011
D7263
B0HCMM000001
C7271
1
C7272
1
L7267
J0JJC0000011
CB10
B10E
CLK2L
LE
D191
D193
D195
D192
D194
D196
CLK1L
LE
D217
D219
D218
D212
D214
D216
D211
D213
D215
D218A
D218C
D212A
D212C
C7266
16V
1
PCL
TEXM

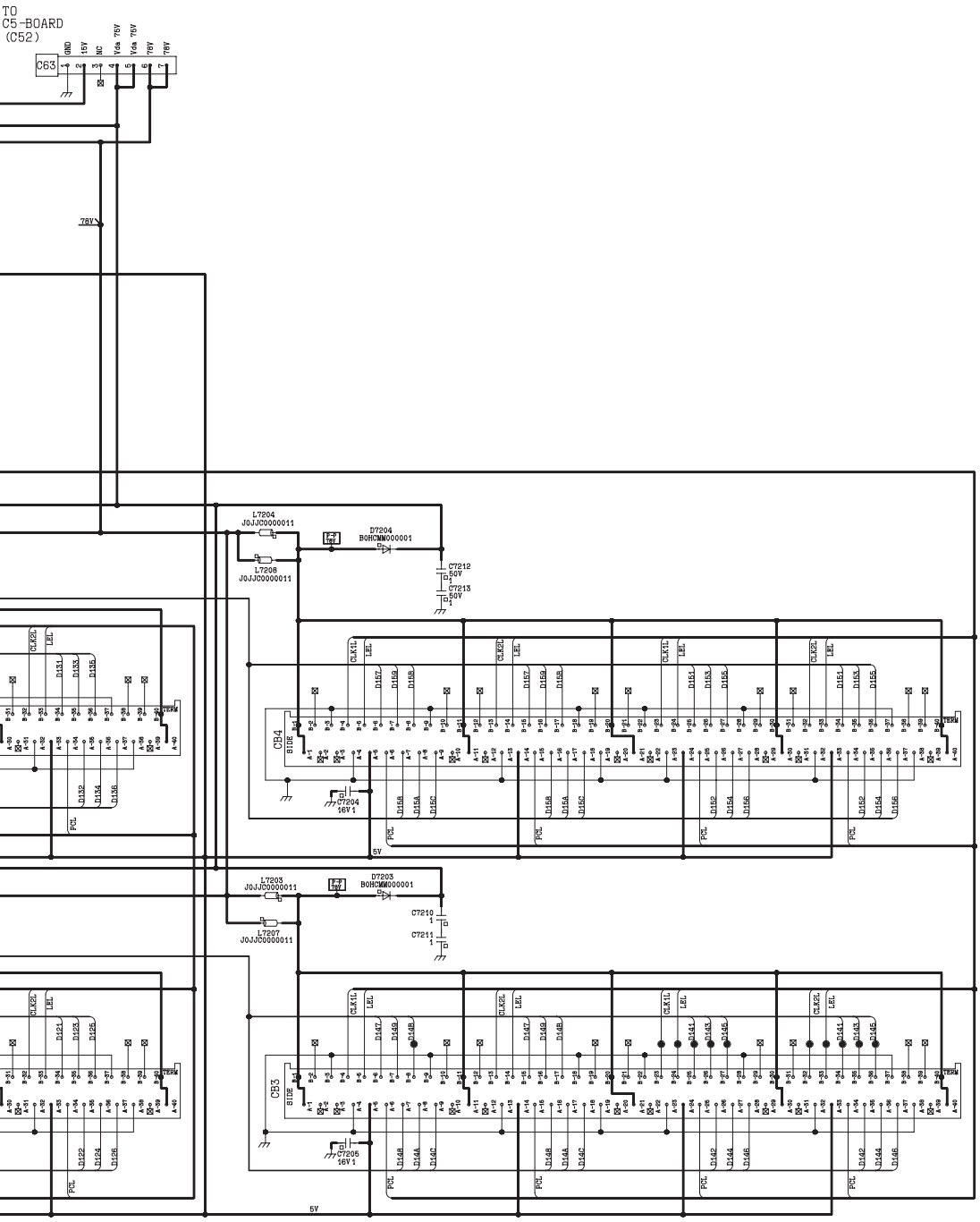
## 13.65. C5-Board Schematic Diagram



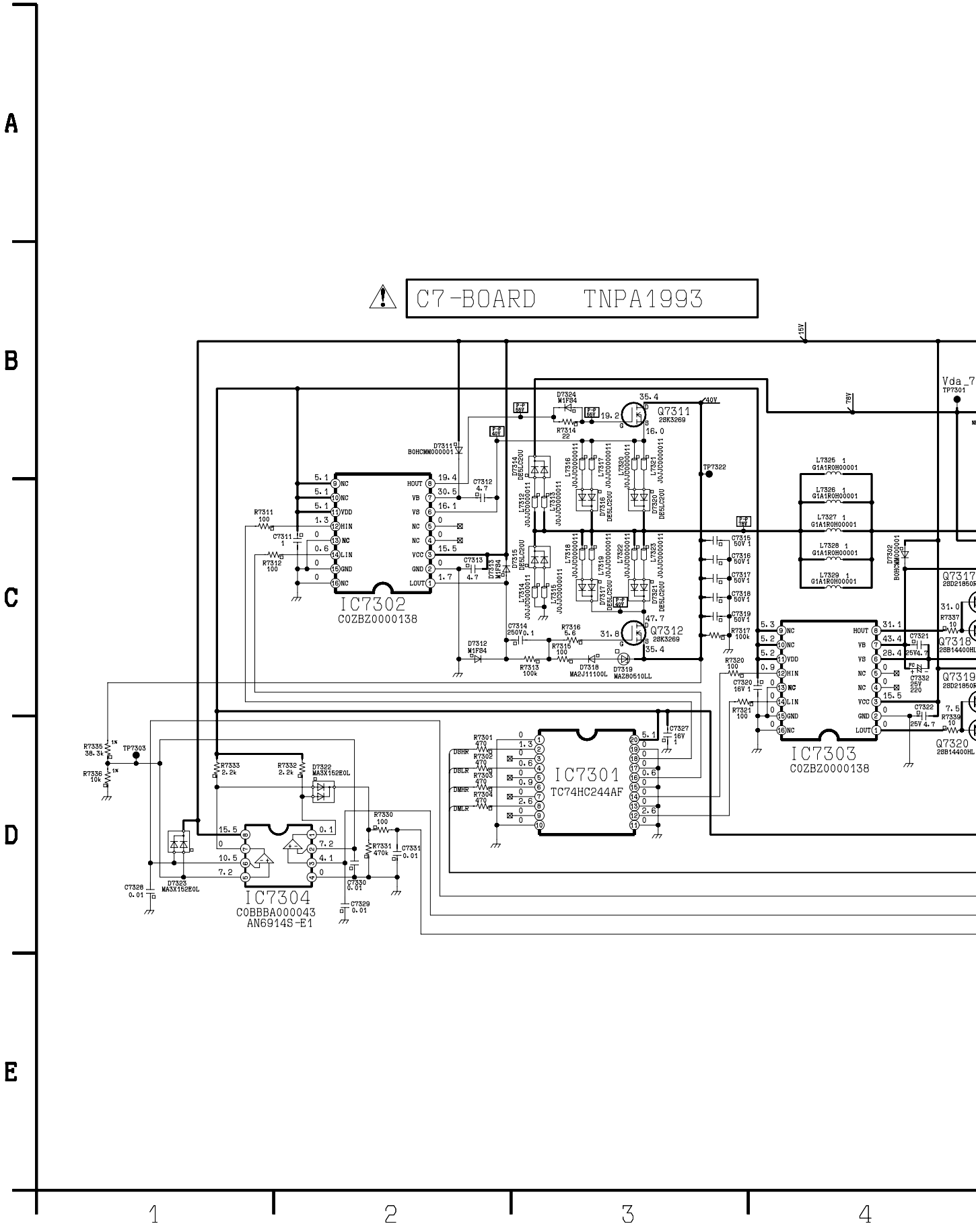

TO
C6-BOARD
(C63)
C52
GND
15V
NC
Vda 75V
Vda 75V
78V
78V
TO
C4-BOARD
(C43)
C53
78V
78V
Vda 75V
Vda 75V
NC
15V
GND
75V
15V
78V
78V
L7236
J0JJC0000011
D7233
B0HCMM000001
C7239
0.1
C7240
0.1
CB7
C7254
16V 1
CLK2L
LEL
D171
D173
D175
D172
D174
D176
POL
D182
D184
D186
TEST
(T38072ADV)
CLK1L
D187
D189
D188
D181
D183
D185
D178
D180

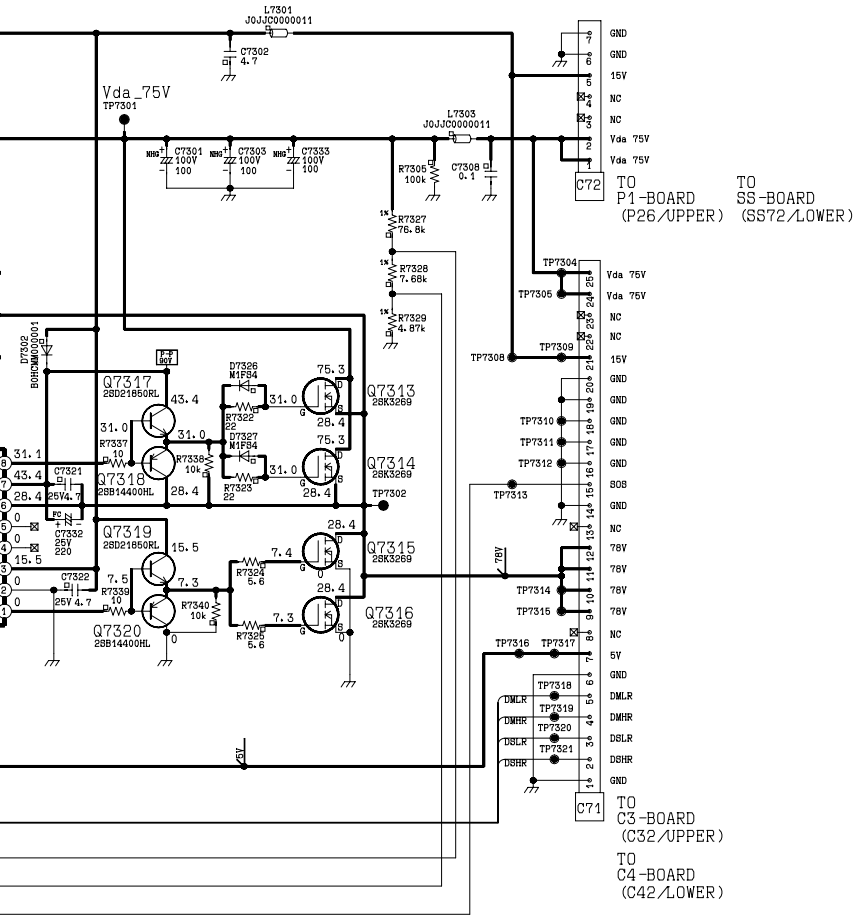
## 13.66. C6-Board Schematic Diagram



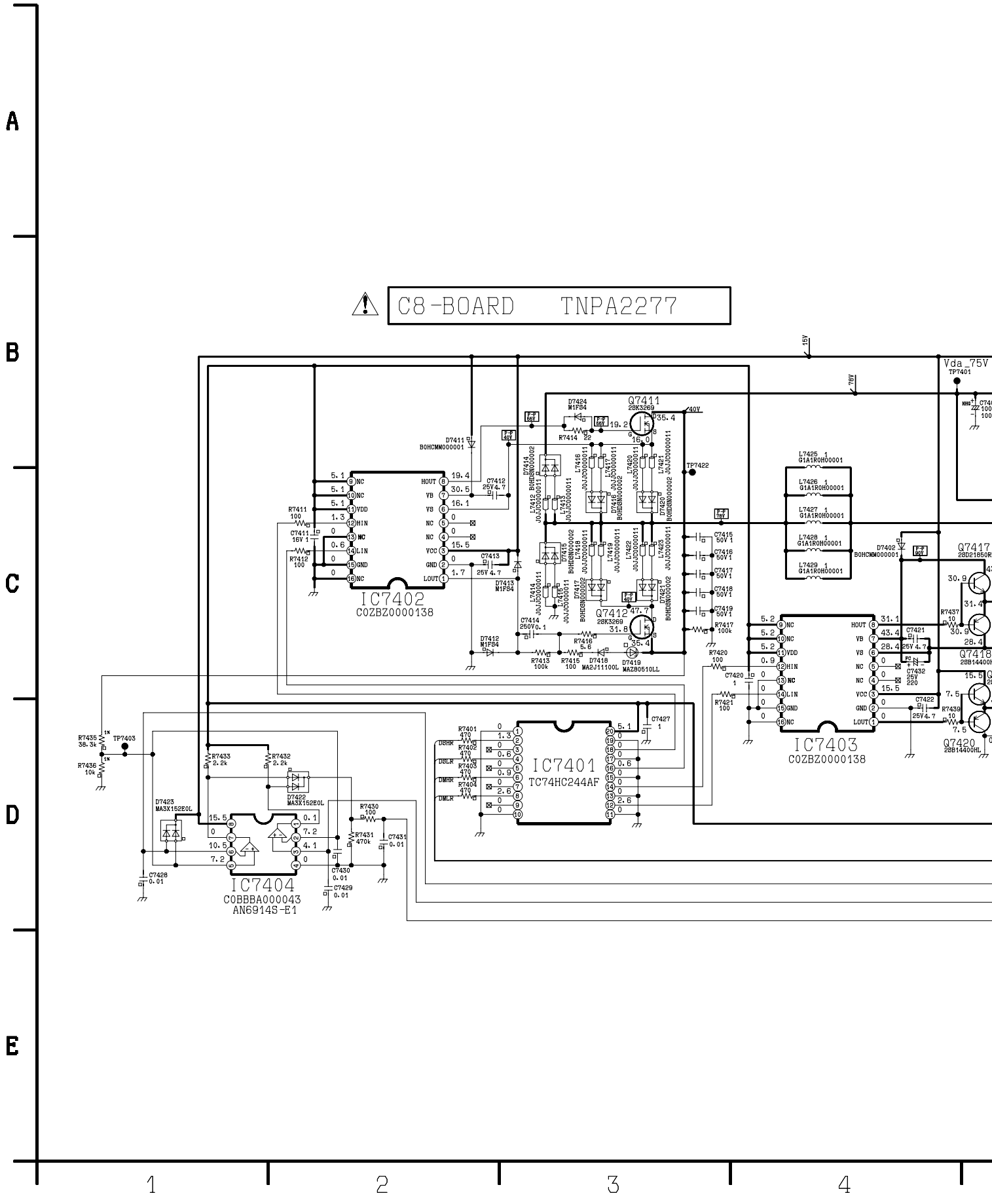

TO
C5-BOARD
(C52)
C63
GND
15V
NC
Vda 75V
Vda 75V
78V
78V
78V
L7204
J0JJC0000011
D7204
B0HCMM000001
C7212
50V
C7213
50V
L7208
J0JJC0000011
CB4
C7204
16V 1
5V
L7203
J0JJC0000011
D7203
B0HCMM000001
C7210
1
C7211
1
L7207
J0JJC0000011
CB3
C7205
16V 1
5V

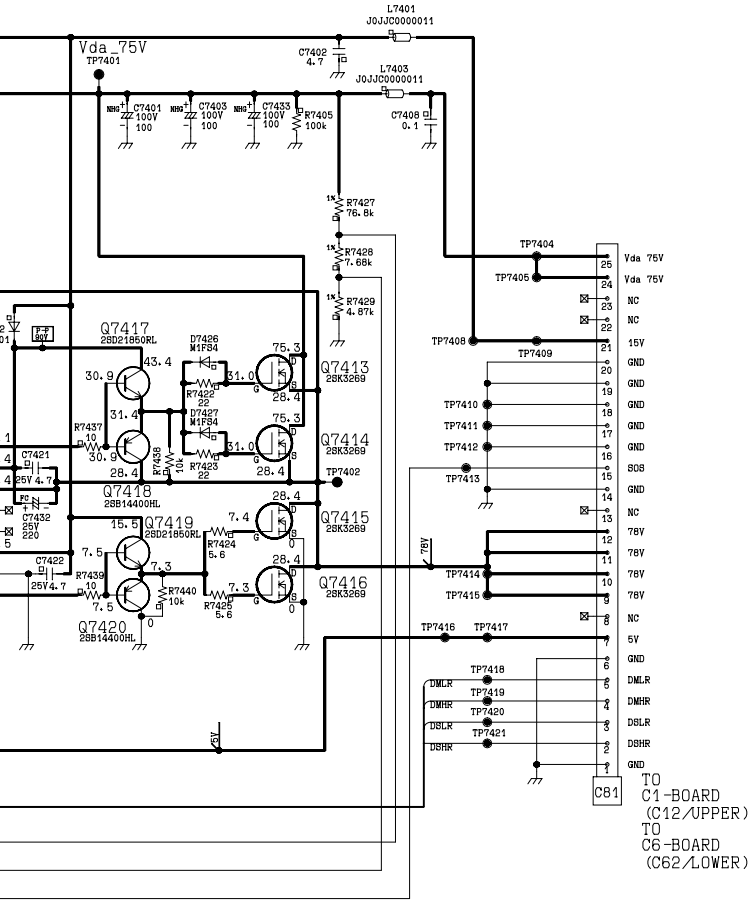
## 13.67. C7-Board Schematic Diagram




L7301
J0JJC0000011
C7302
4.7
Vda_75V
TP7301
L7303
J0JJC0000011
C7301
C7303
C7333
100V
100
R7305
100k
C7308
0.1
R7327
76.8k
R7328
7.68k
R7329
4.87k
C72
GND
GND
15V
NC
NC
Vda 75V
Vda 75V
TO
P1-BOARD
(P26/UPPER)
TO
SS-BOARD
(SS72/LOWER)
TP7304
TP7305
TP7308
TP7309
TP7310
TP7311
TP7312
TP7313
TP7314
TP7315
TP7316
TP7317
TP7318
TP7319
TP7320
TP7321
TP7302
Vda 75V
Vda 75V
NC
NC
15V
GND
GND
GND
GND
GND
SOB
GND
NC
78V
78V
78V
78V
NC
5V
GND
DMLR
DMHR
DSLR
DSHR
GND
C71
TO
C3-BOARD
(C32/UPPER)
TO
C4-BOARD
(C42/LOWER)
D7302
B0HCM0000001
Q7317
2SD2150RL
Q7318
2SB1440OHL
Q7319
2SD2150RL
Q7320
2SB1440OHL
Q7313
2SK3269
Q7314
2SK3269
Q7315
2SK3269
Q7316
2SK3269
D7326
M1F84
D7327
M1F84
R7322
22
R7323
22
R7324
5.6
R7325
5.6
R7337
10
R7338
10k
R7339
10
R7340
10k
C7321
25V 4.7
C7322
25V 4.7
C7332
25V
220
43.4
31.0
28.4
75.3
15.5
7.5
7.3
7.4
31.1
0
78V
5V

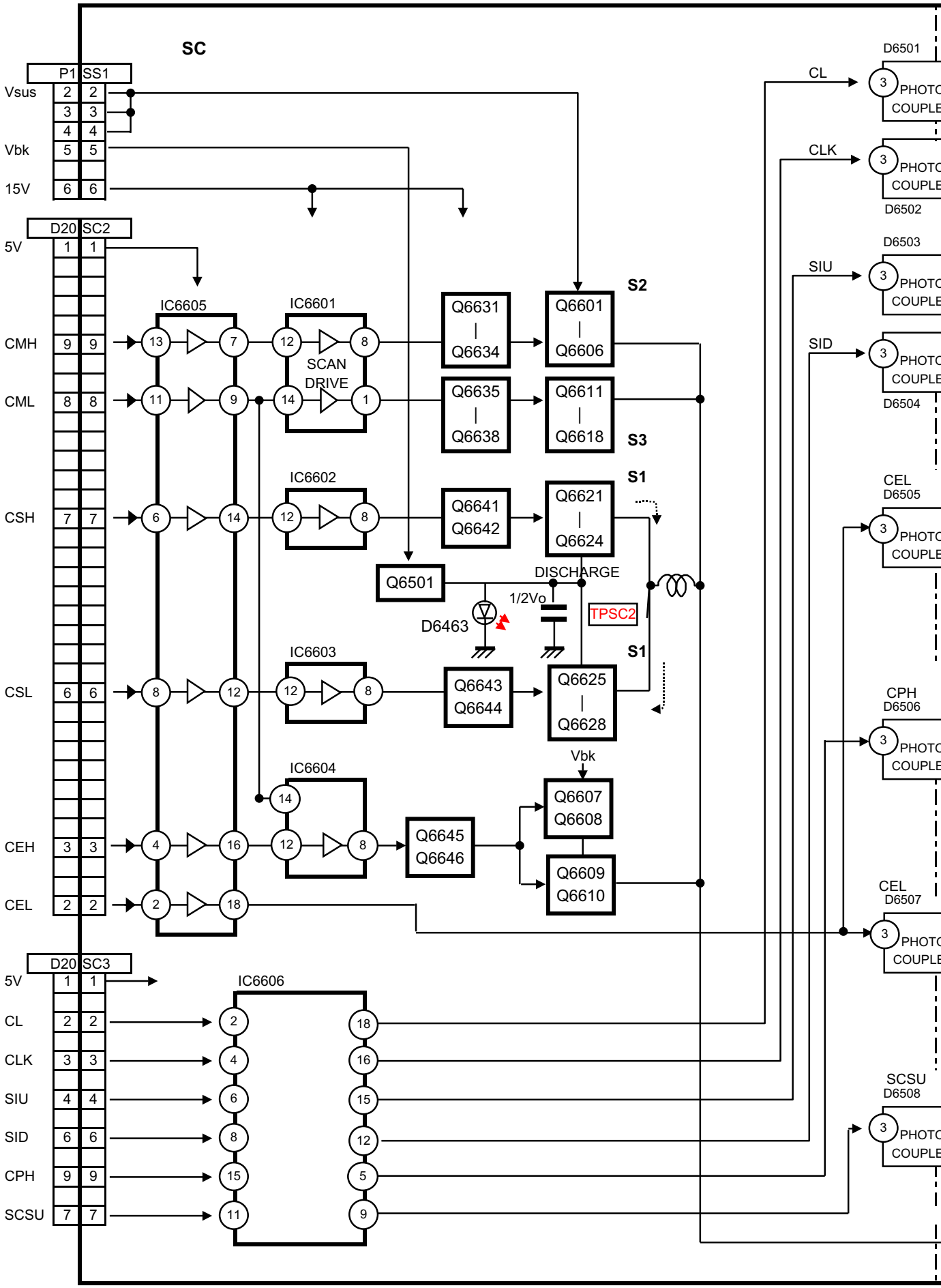
## 13.68. C8-Board Schematic Diagram

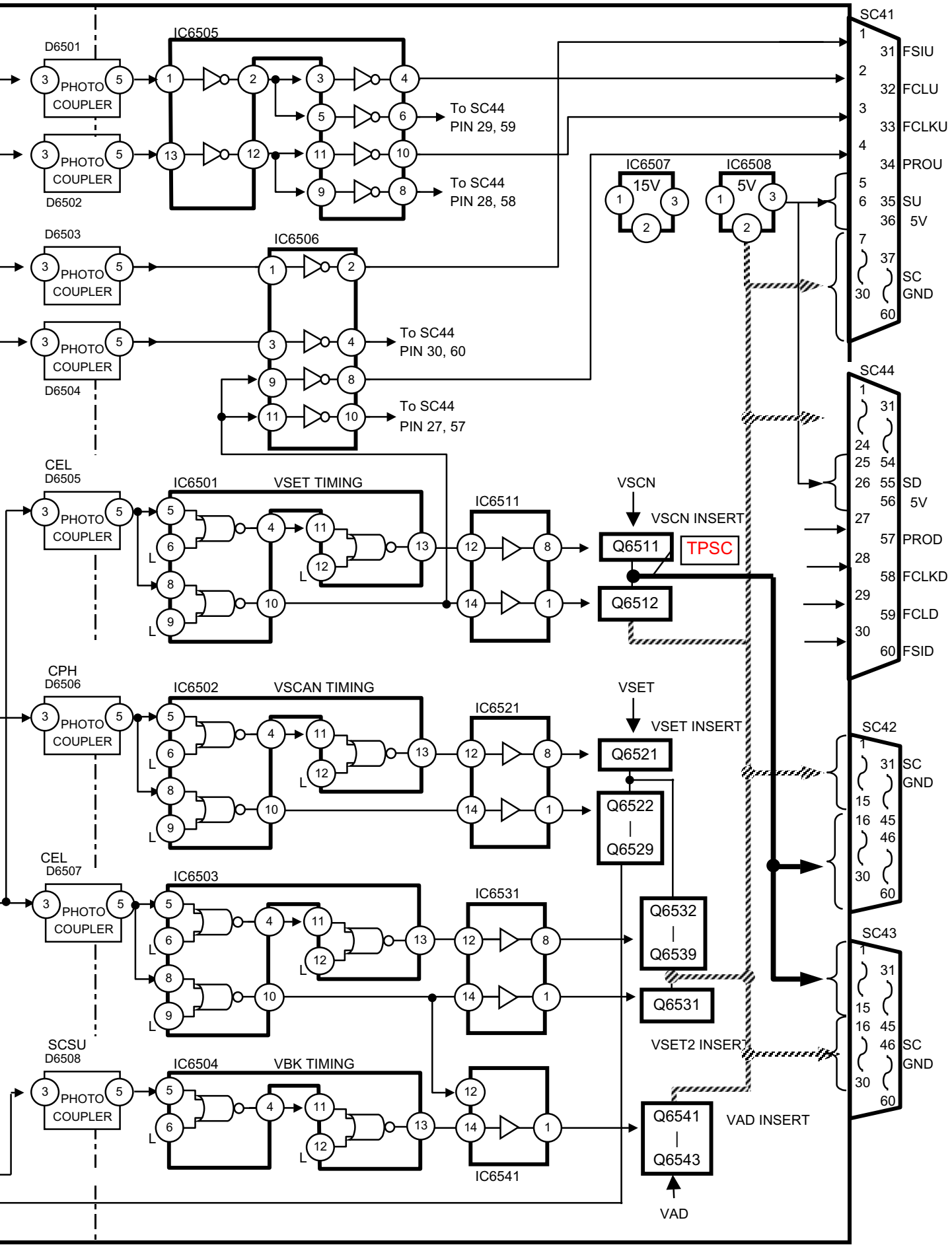



L7401
J0JJC0000011
Vda_75V
TP7401
C7402
4.7
L7403
J0JJC0000011
C7401
100V
100
C7403
100V
100
C7433
100V
100
R7405
100k
C7408
0.1
R7427
76.8k
R7428
7.68k
R7429
4.87k
TP7404
TP7405
TP7408
TP7409
TP7410
TP7411
TP7412
TP7413
TP7402
Q7417
2SD2150RL
Q7413
2SK3269
Q7414
2SK3269
Q7415
2SK3269
Q7416
2SK3269
Q7418
2SB14400HL
Q7419
2SD2150RL
Q7420
2SB14400HL
D7426
M1FB4
D7427
M1FB4
R7422
22
R7423
22
R7424
5.6
R7425
5.6
R7437
10
R7438
10k
R7439
10
R7440
10k
C7421
25V 4.7
C7422
25V 4.7
C7432
25V
220
78V
5V
Vda 75V
Vda 75V
NC
NC
15V
GND
GND
GND
GND
SOS
GND
NC
78V
78V
78V
78V
NC
5V
GND
DMLR
DMHR
DSLR
DSHR
GND
C81
TO
C1-BOARD
(C12/UPPER)
TO
C6-BOARD
(C62/LOWER)

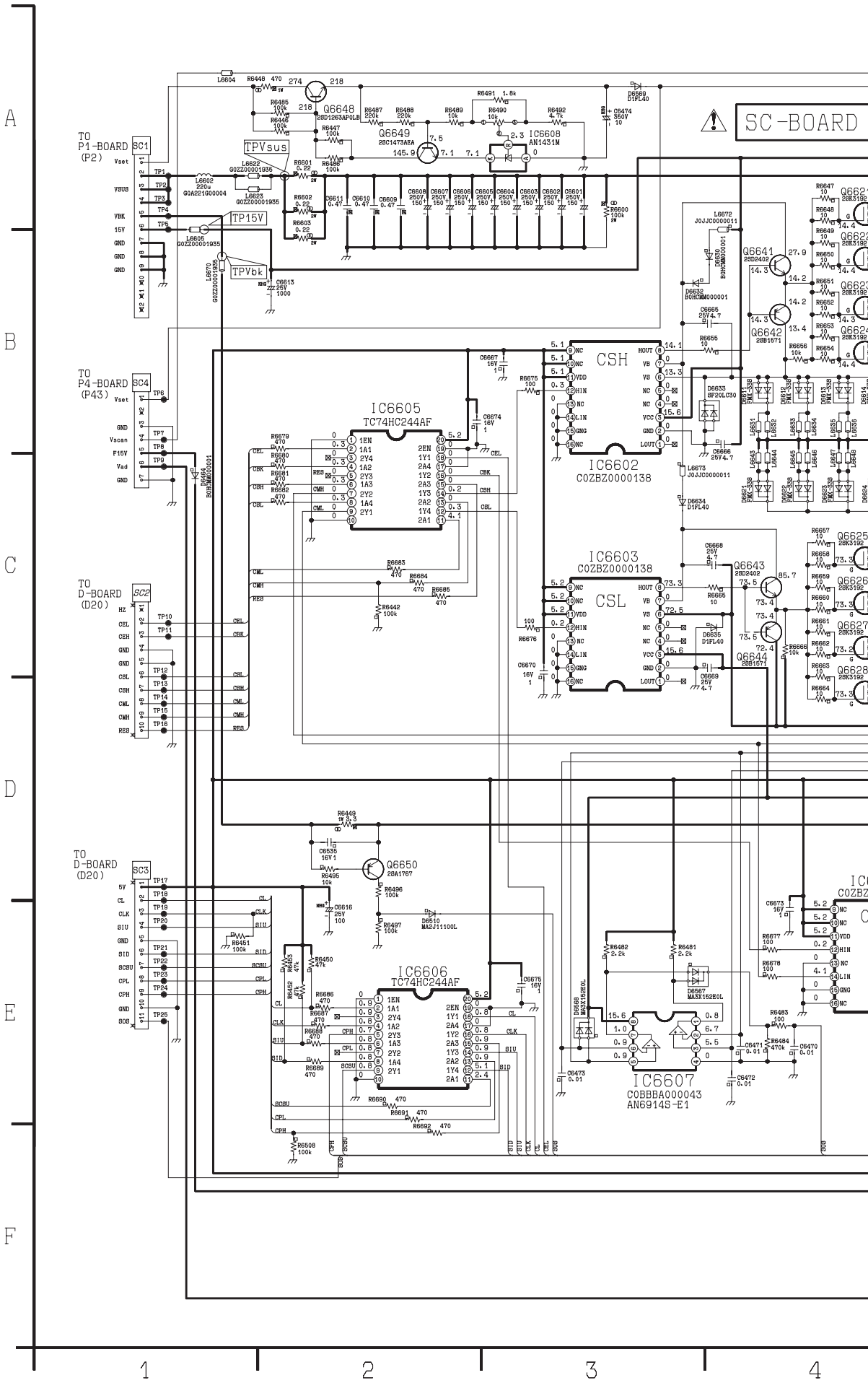
5 6 7

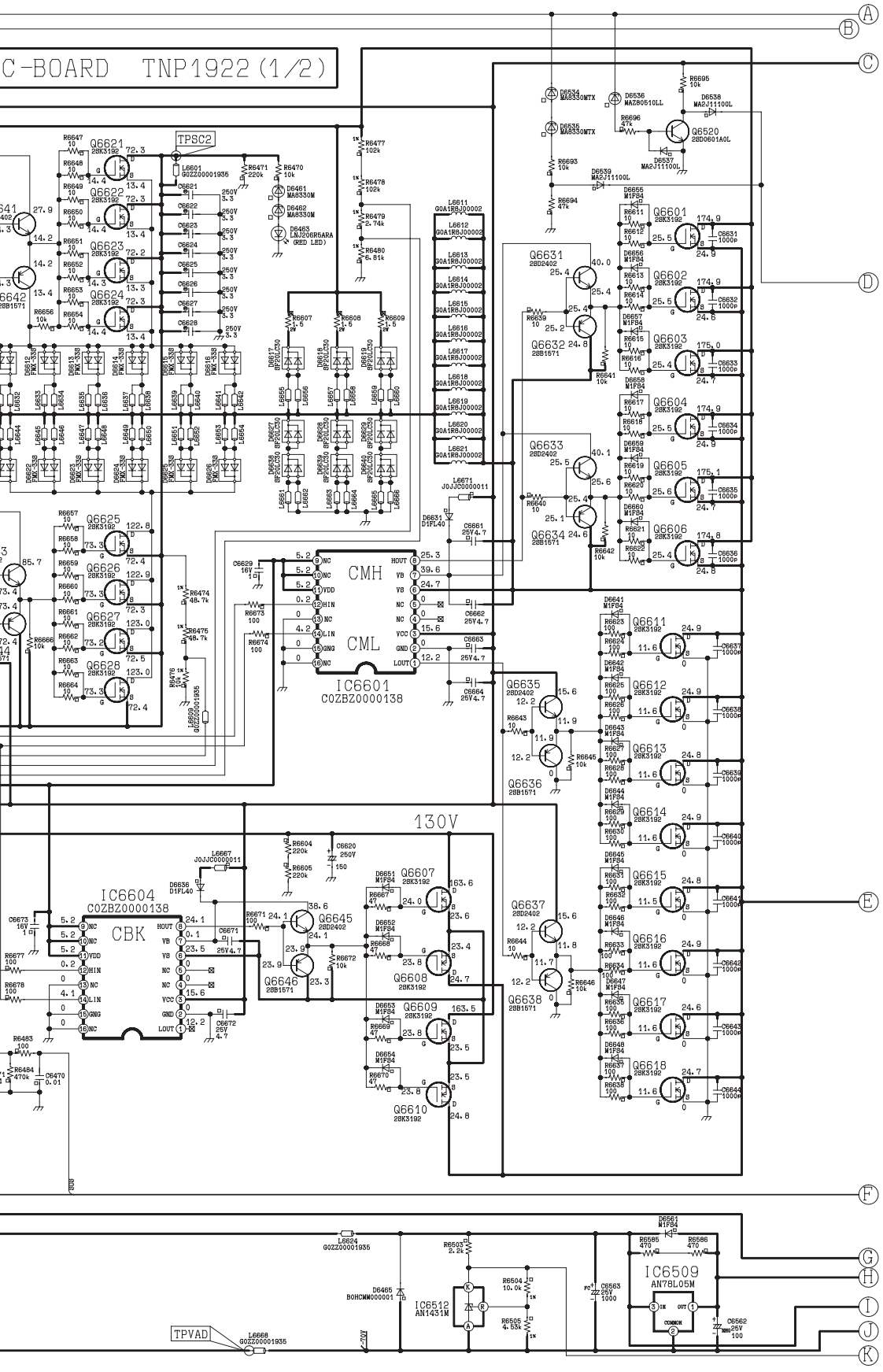
## 13.69. SC-Board Block Diagram



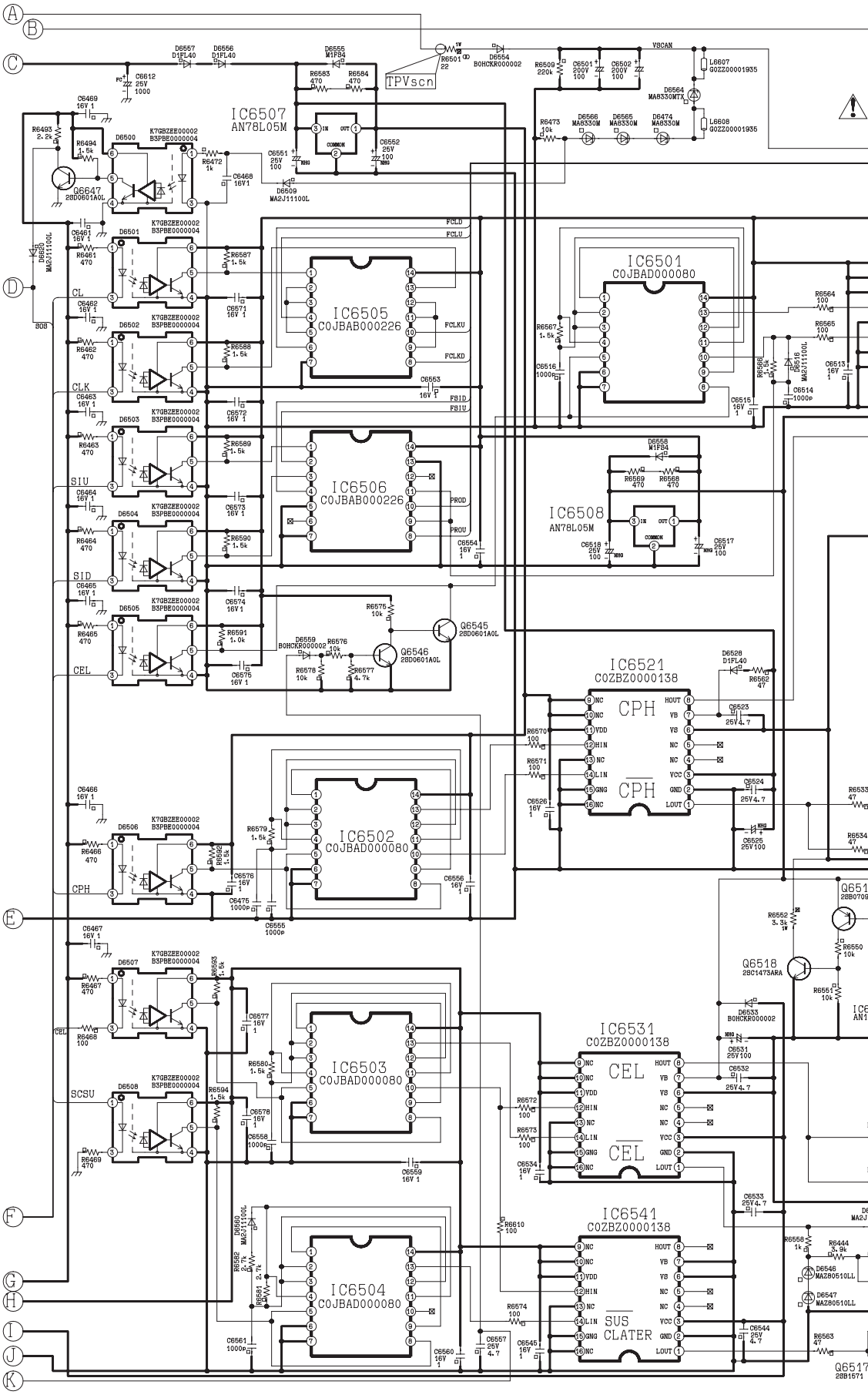

D6501
PHOTO COUPLER
D6502
D6503
PHOTO COUPLER
D6504
CEL
D6505
PHOTO COUPLER
CPH
D6506
PHOTO COUPLER
CEL
D6507
PHOTO COUPLER
SCSU
D6508
PHOTO COUPLER
IC6505
To SC44 PIN 29, 59
To SC44 PIN 28, 58
IC6506
To SC44 PIN 30, 60
To SC44 PIN 27, 57
IC6501 VSET TIMING
IC6502 VSCAN TIMING
IC6503
IC6504 VBK TIMING
IC6511
IC6521
IC6531
IC6541
IC6507 15V
IC6508 5V
VSCN
VSCN INSERT
Q6511
TPSC
Q6512
VSET
VSET INSERT
Q6521
Q6522 | Q6529
Q6532 | Q6539
Q6531
VSET2 INSERT
Q6541 | Q6543
VAD INSERT
VAD
SC41
1 FSIU
2 FCLU
3 FCLKU
4 PROU
5 SU
6 5V
7 SC GND
SC44
SD
5V
PROD
FCLKD
FCLD
FSID
SC42
SC GND
SC43
SC GND

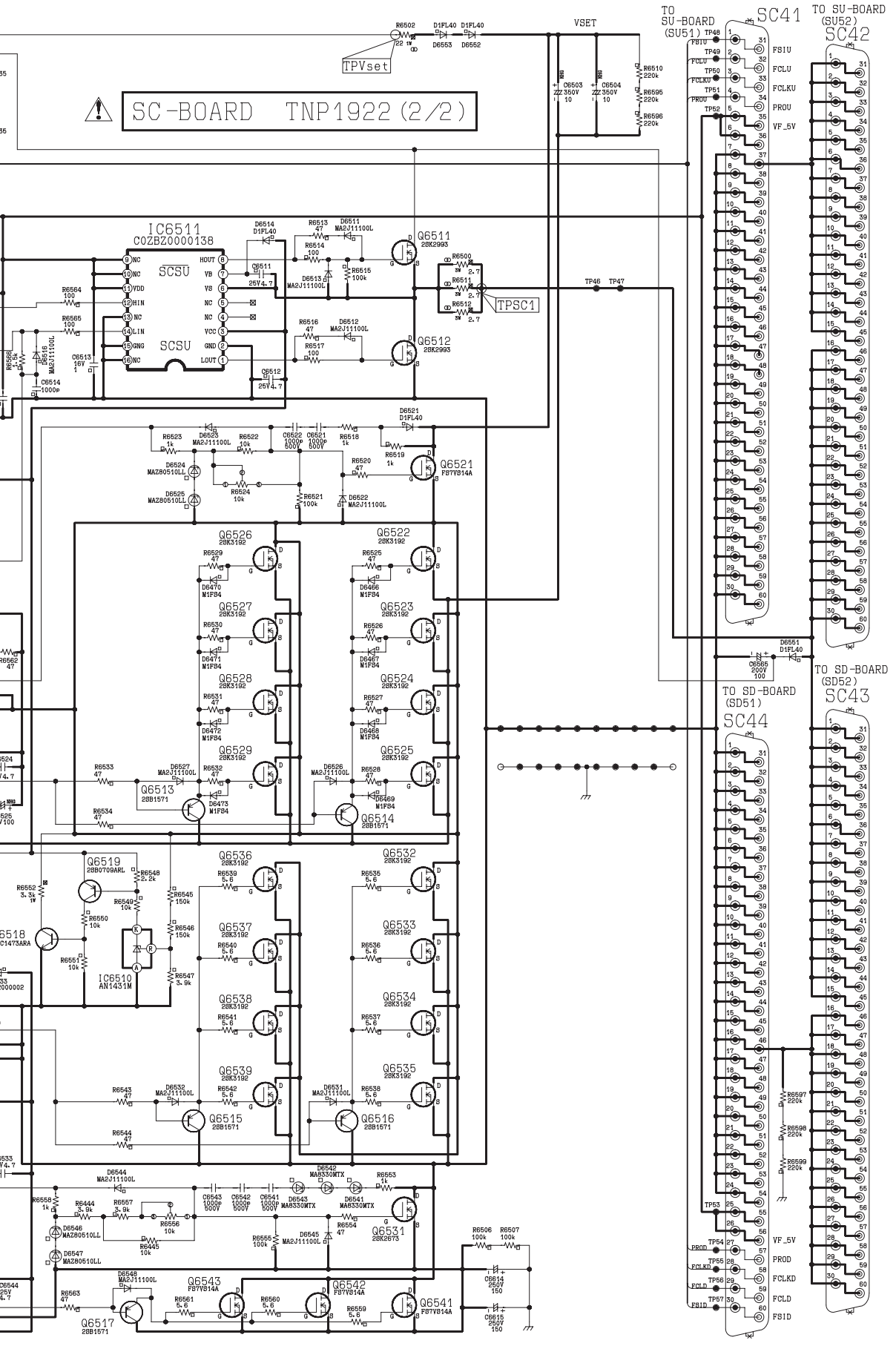
# 13.70. SC-Board (1 of 2) Schematic Diagram



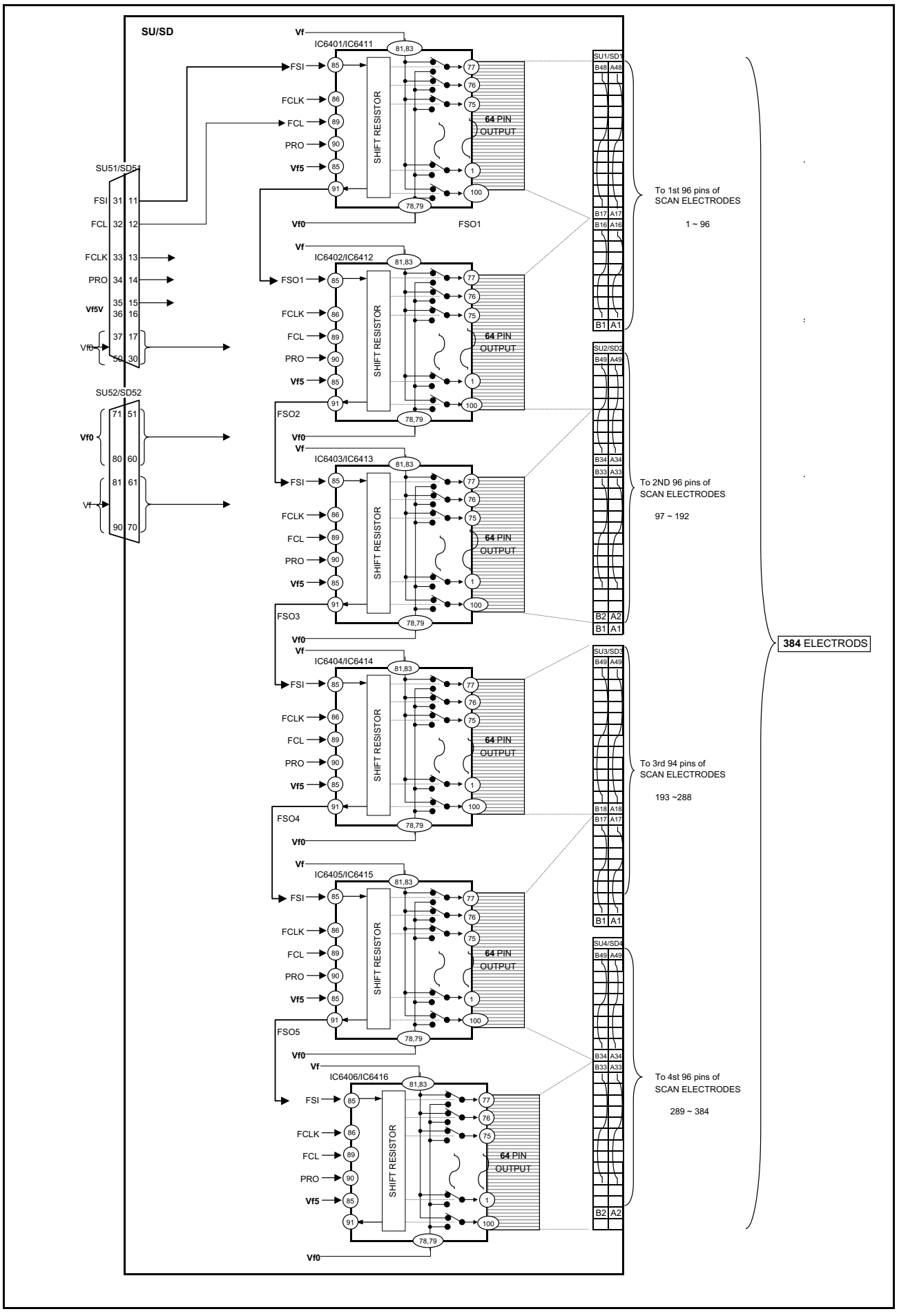

C-BOARD TNP1922 (1/2)
TPSC2
IC6601
C0ZBZ0000138
CMH
CML
IC6604
C0ZBZ0000138
CBK
130V
IC6509
AN78L05M
IC6512
AN1431M
TPVAD
A
B
C
D
E
F
G
H
I
J
K
4
5
6
7

# 13.71. SC-Board (2 of 2) Schematic Diagram

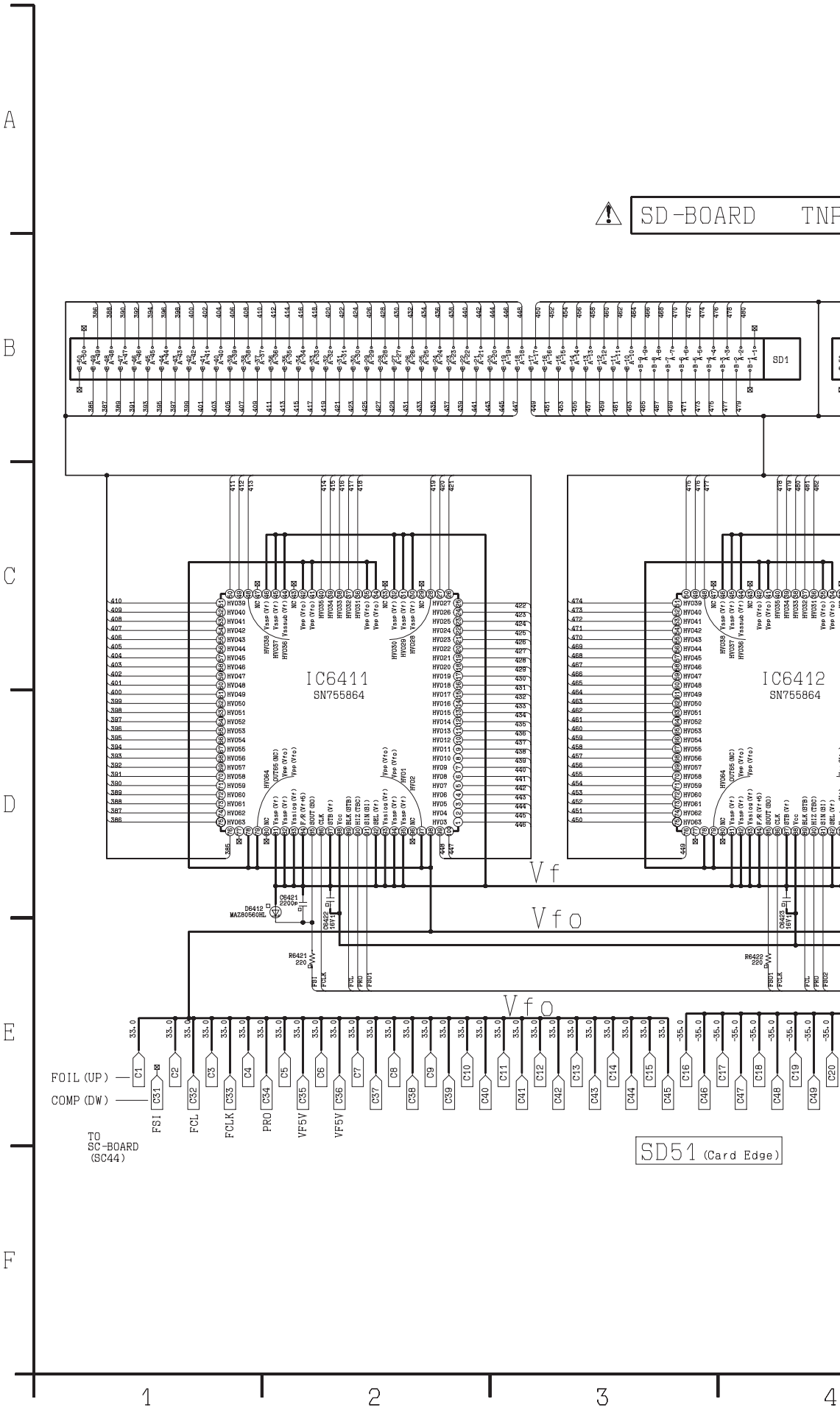


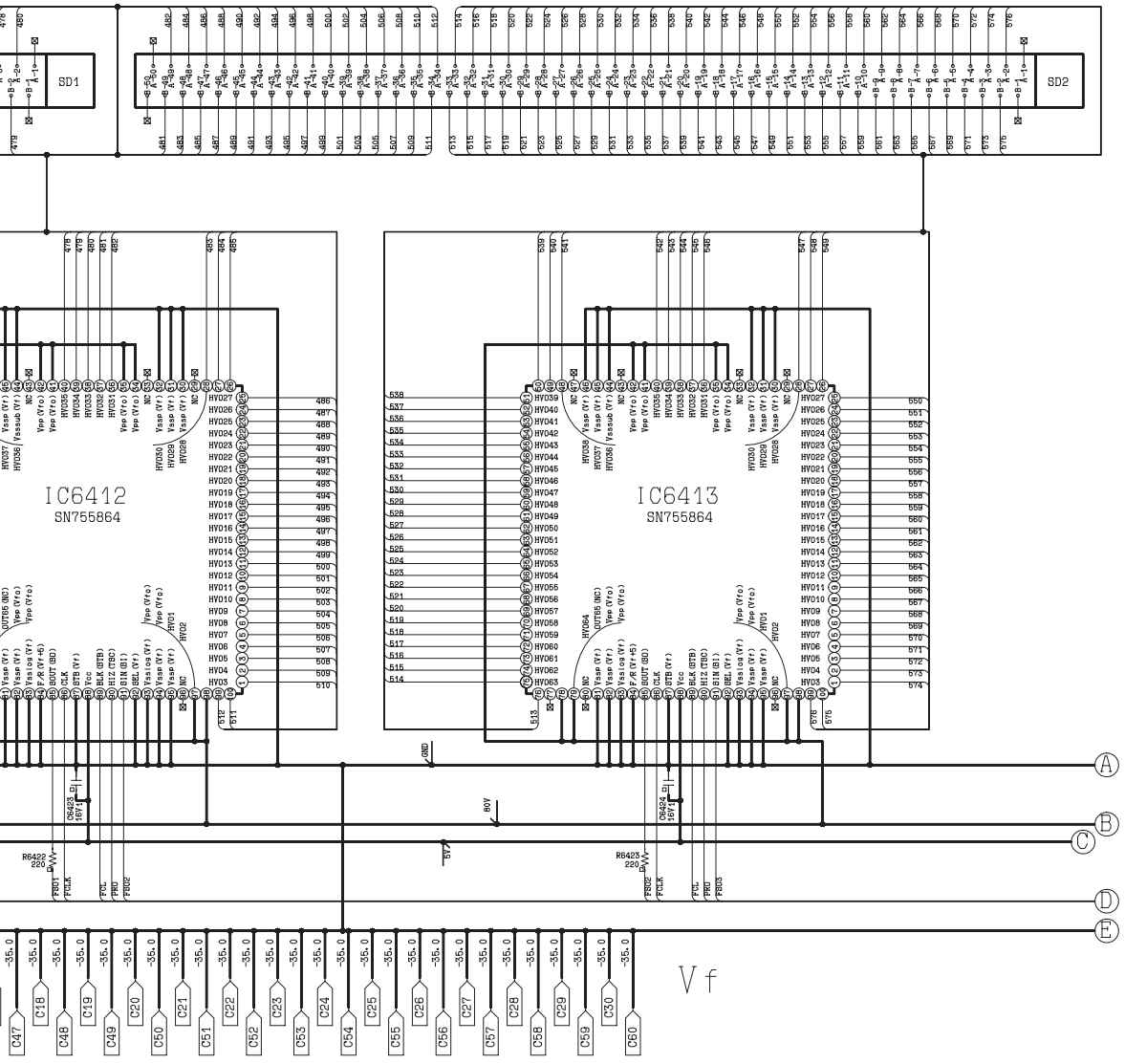

SC-BOARD TNP1922 (2/2)
TPVset
VSET
TO SU-BOARD (SU51)
SC41
TO SU-BOARD (SU52)
SC42
TO SD-BOARD (SD51)
SC44
TO SD-BOARD (SD52)
SC43
IC6511
C0ZBZ0000138
SCSU
Q6511
Q6512
TPSC1
Q6521
Q6526
Q6522
Q6527
Q6523
Q6528
Q6524
Q6529
Q6525
Q6513
Q6514
Q6519
IC6510
AN14431M
Q6536
Q6532
Q6537
Q6533
Q6538
Q6534
Q6539
Q6535
Q6515
Q6516
Q6544
Q6543
Q6542
Q6541
Q6517
Q6531
FSIU
FCLU
FCLKU
PROU
VF_5V
PROD
FCLKD
FCLD
FSID

# 13.72. SD and SU Board Block Diagram



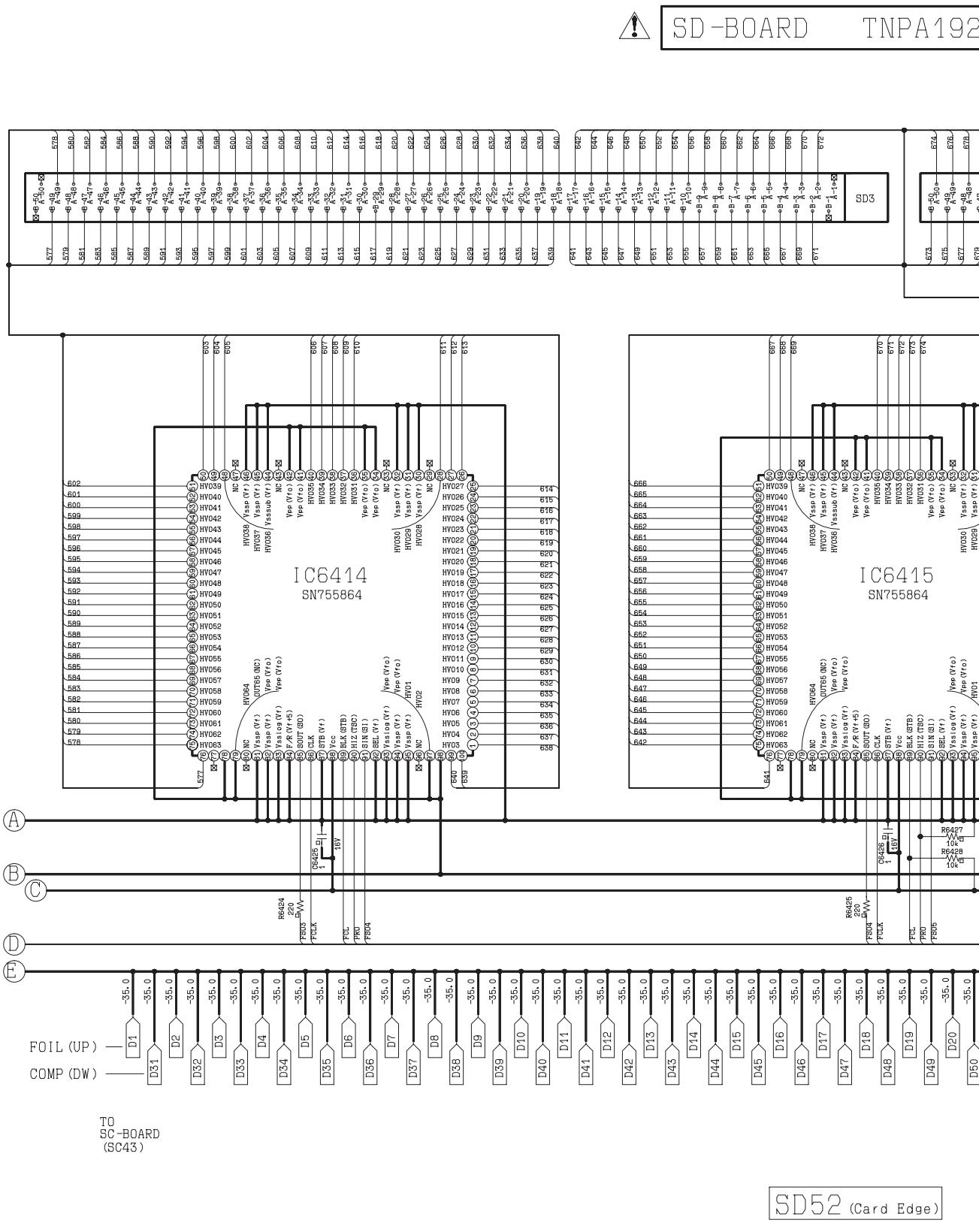
## 13.73. SD-Board (1 of 2) Schematic Diagram




SD1
SD2
IC6412
SN755864
IC6413
SN755864
GND
80V
R6423
220
Vf

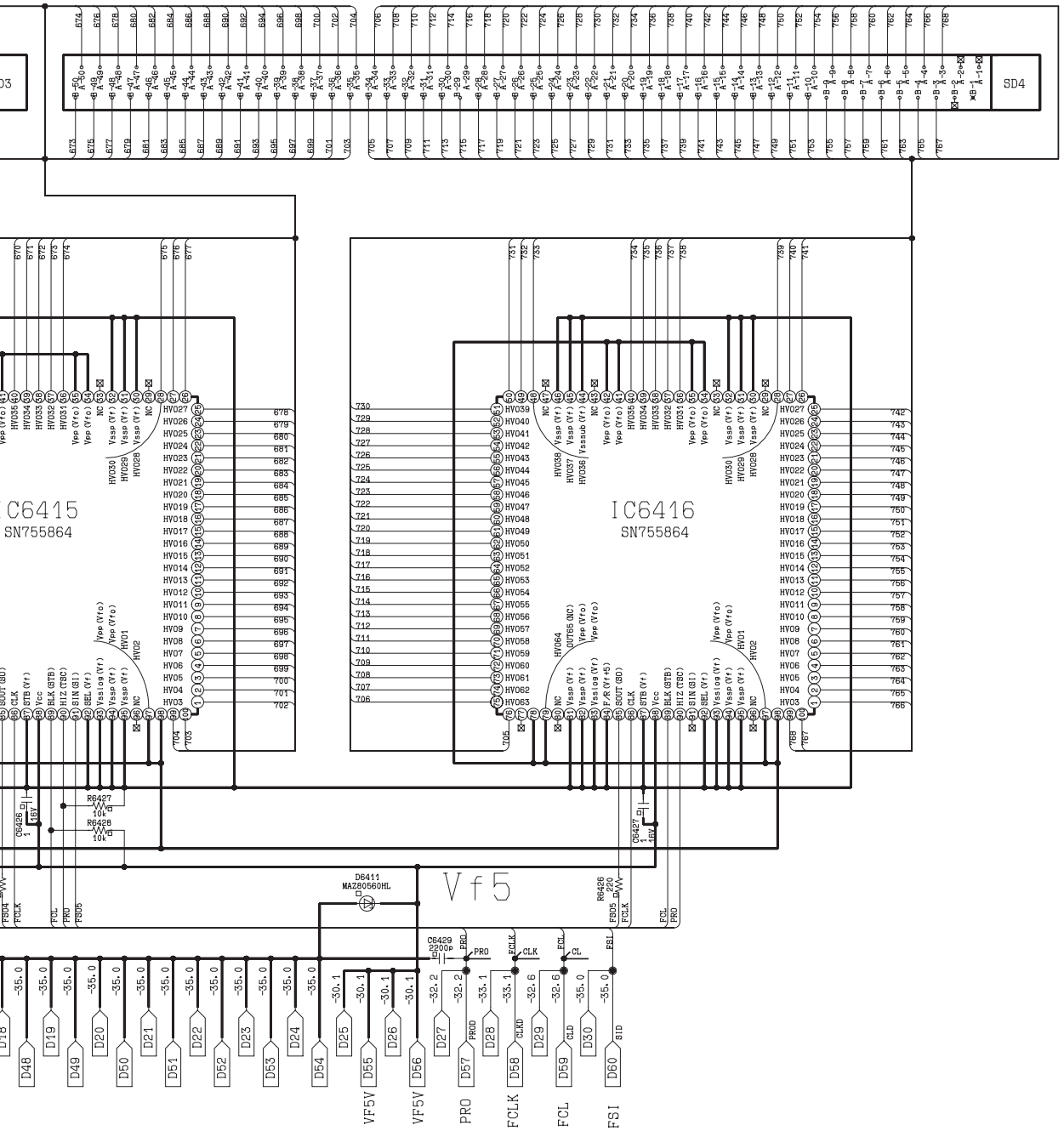
d Edge)

# 13.74. SD-Board (2 of 2) Schematic Diagram



TNPA1921 (2/2)

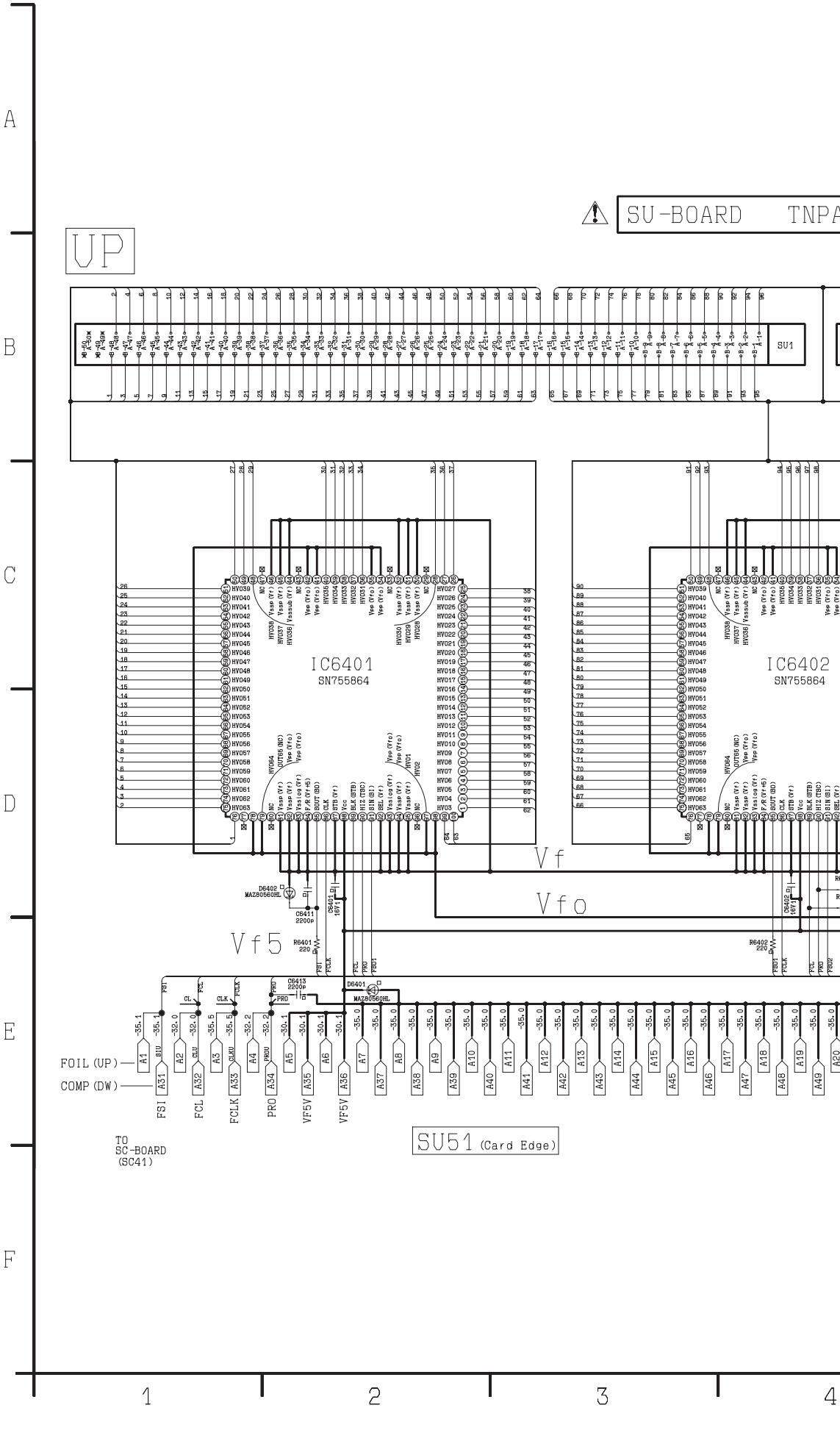
DOWN

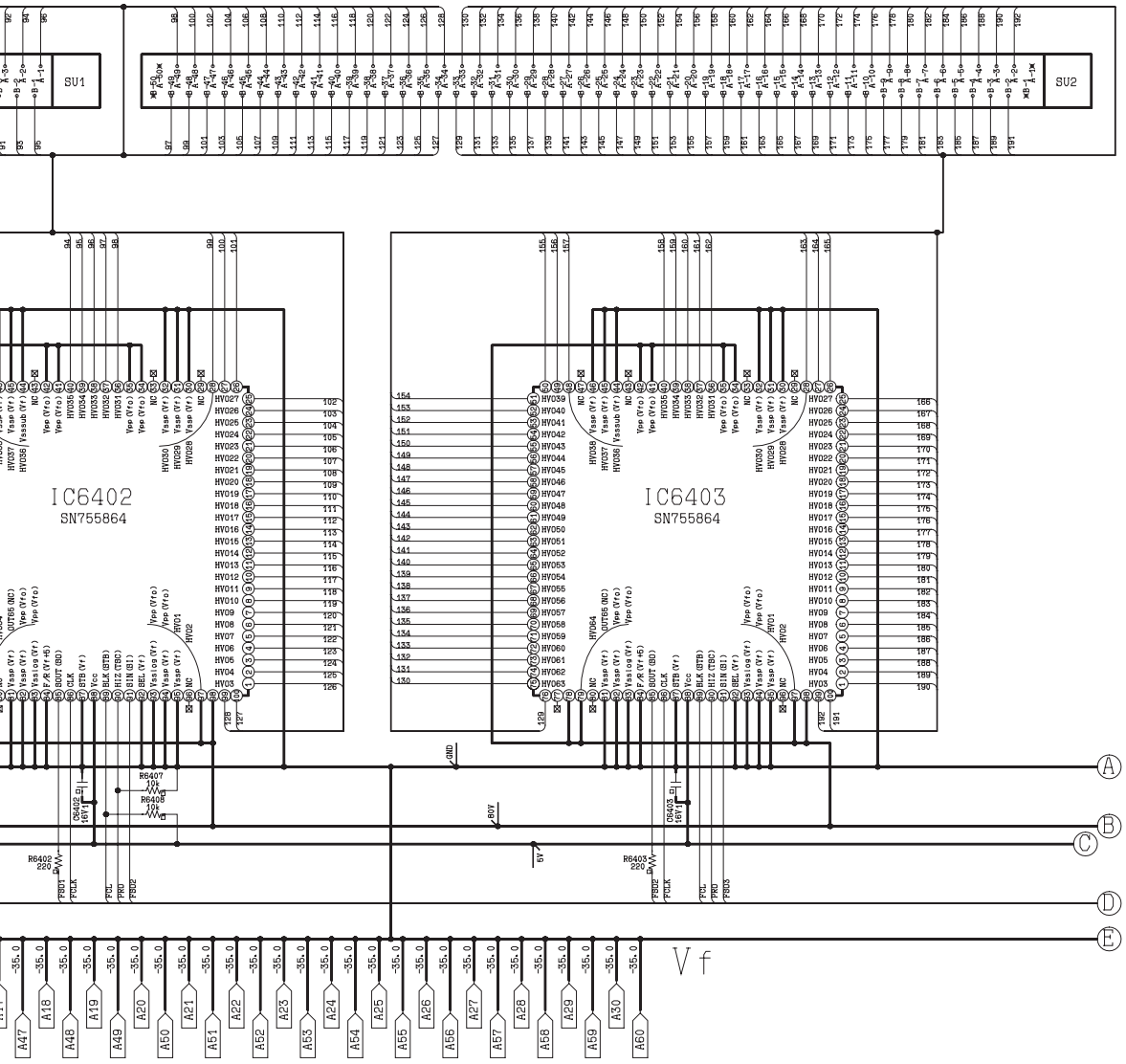



ard Edge)

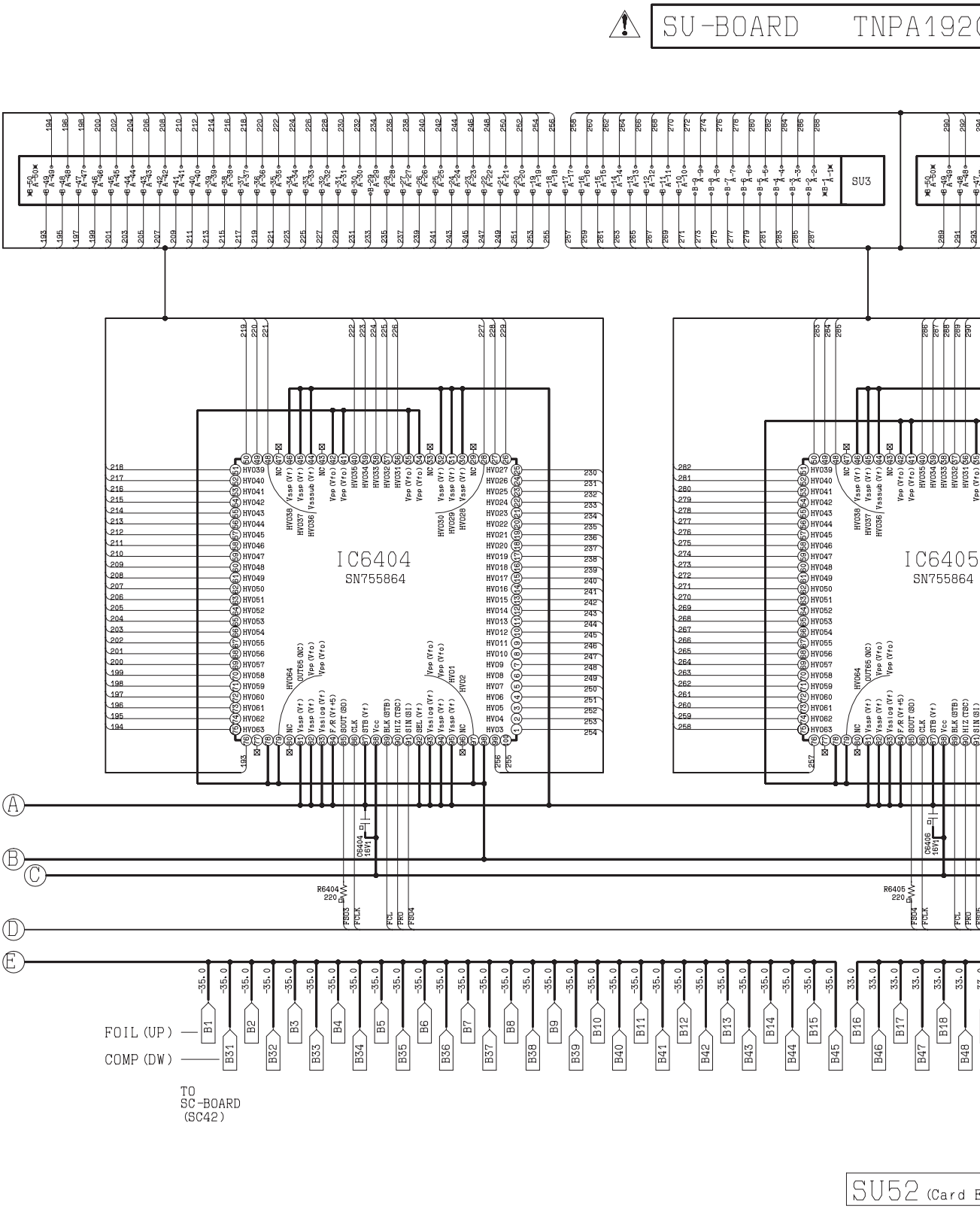
11 12 13 14

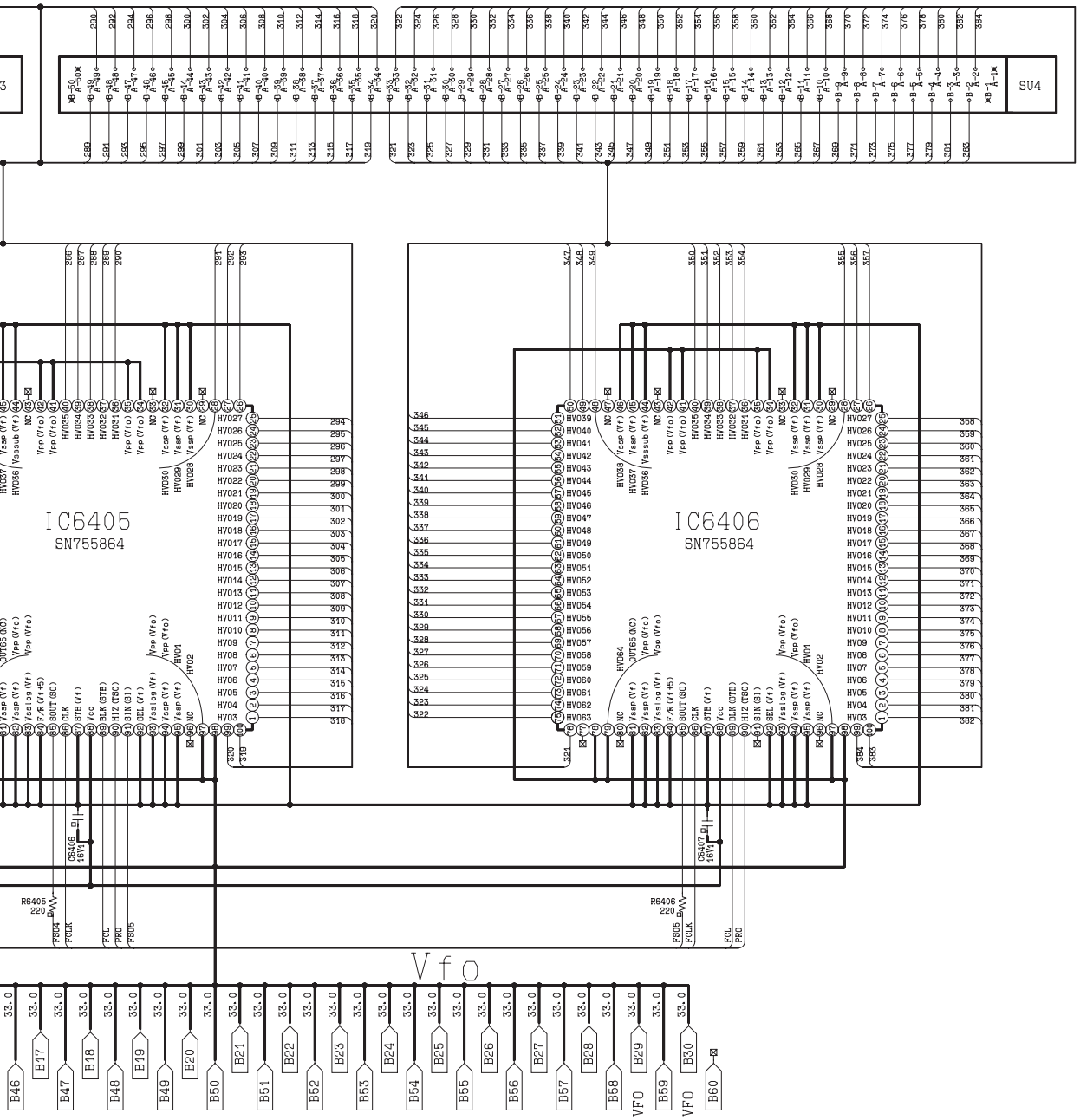
# 13.75. SU-Board (1 of 2) Schematic Diagram



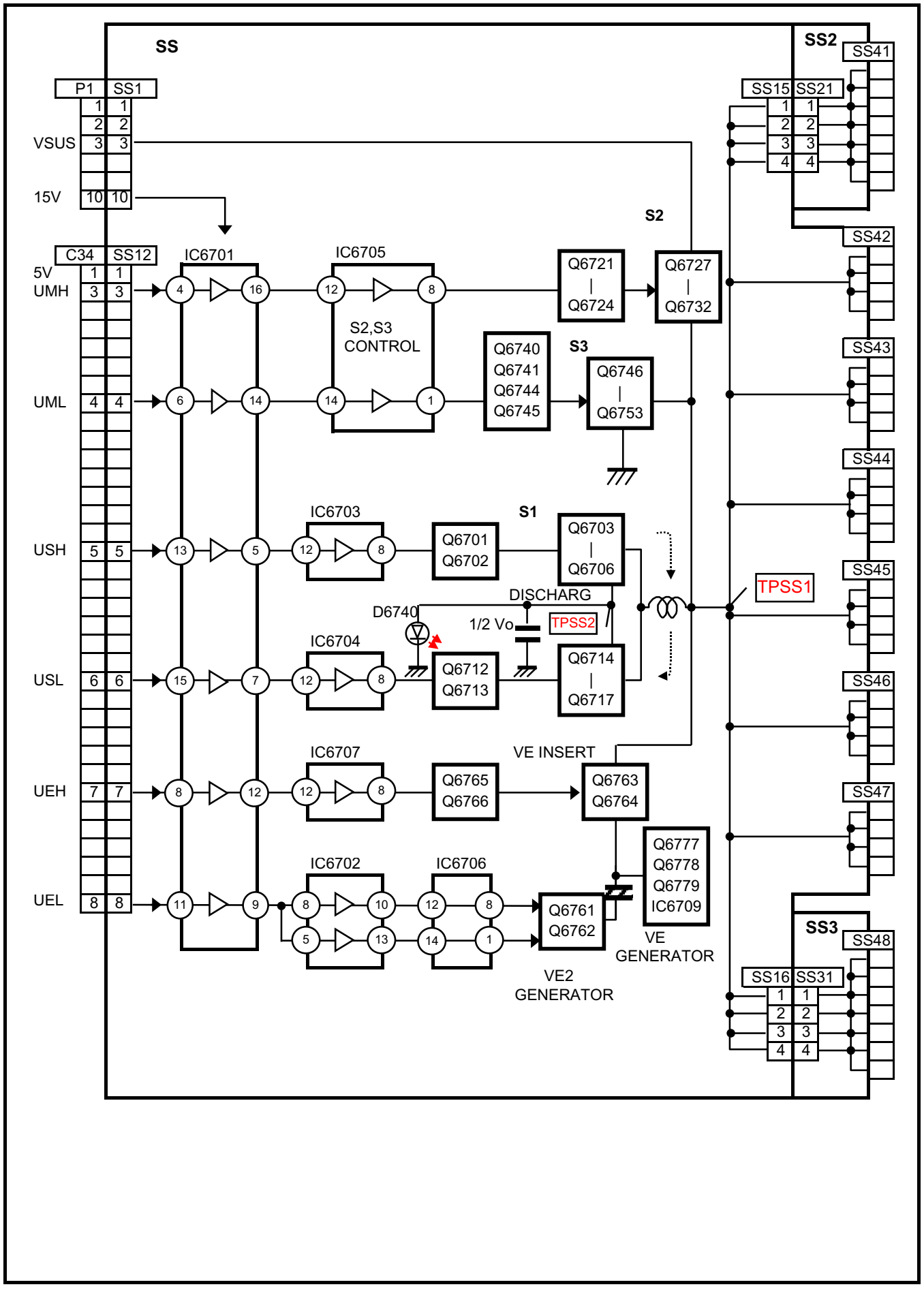

SU1
SU2
IC6402
SN755864
IC6403
SN755864
GND
80V
6V
R6407
100
R6408
100
R6402
220
R6403
220
C6402
16V1
C6403
16V1
Vf
A47
A18
A48
A19
A49
A20
A50
A21
A51
A22
A52
A23
A53
A24
A54
A25
A55
A26
A56
A27
A57
A28
A58
A29
A59
A30
A60

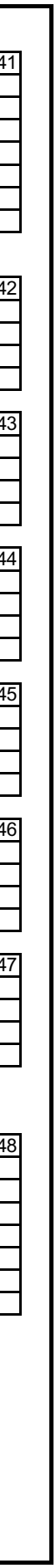
## 13.76. SU-Board (2 of 2) Schematic Diagram



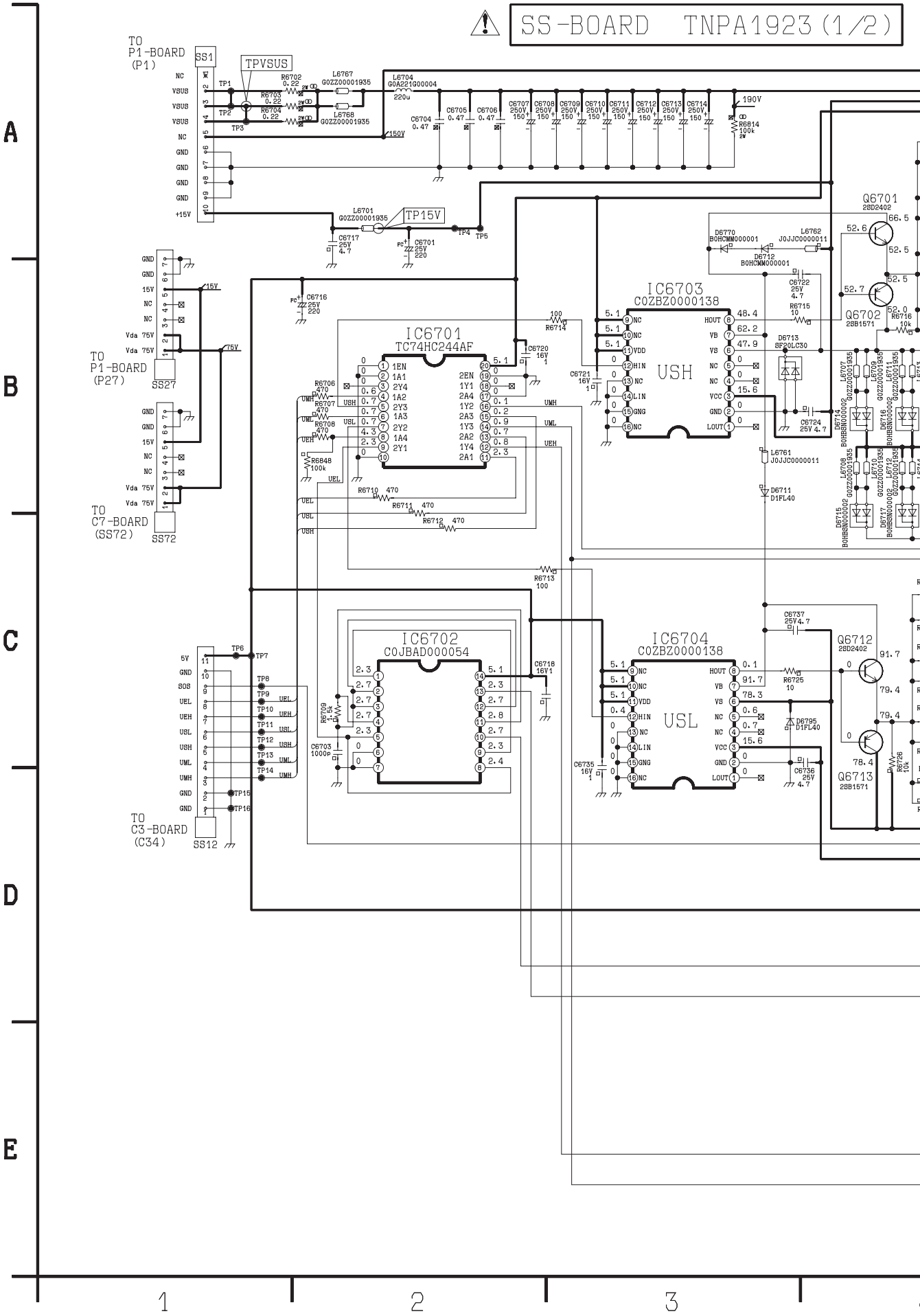

SU4
IC6405
SN755864
IC6406
SN755864
Vfo
VFO
VFO

## 13.77. SS, SS2 and SS3 Board Block

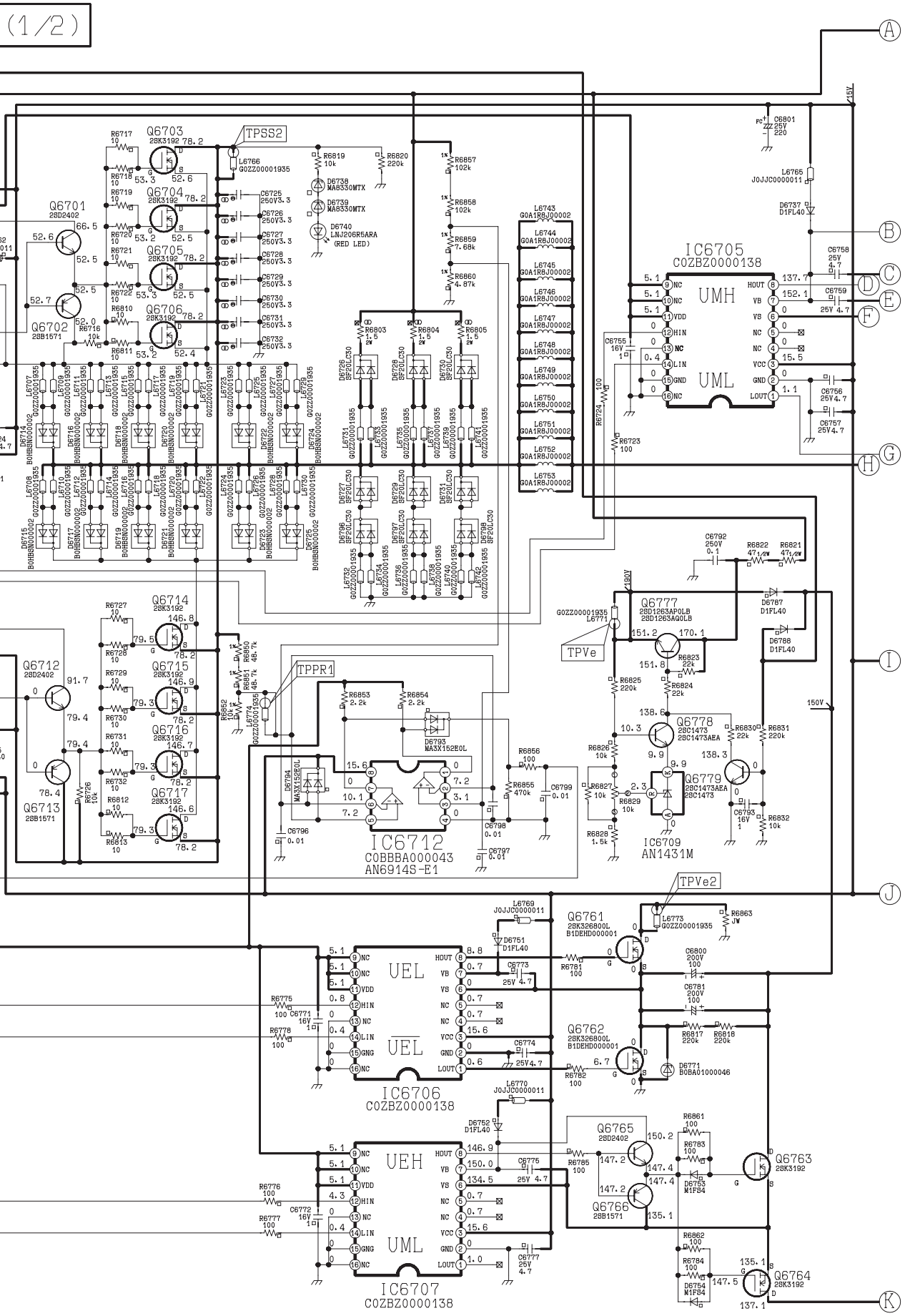



41
42
43
44
45
46
47
48

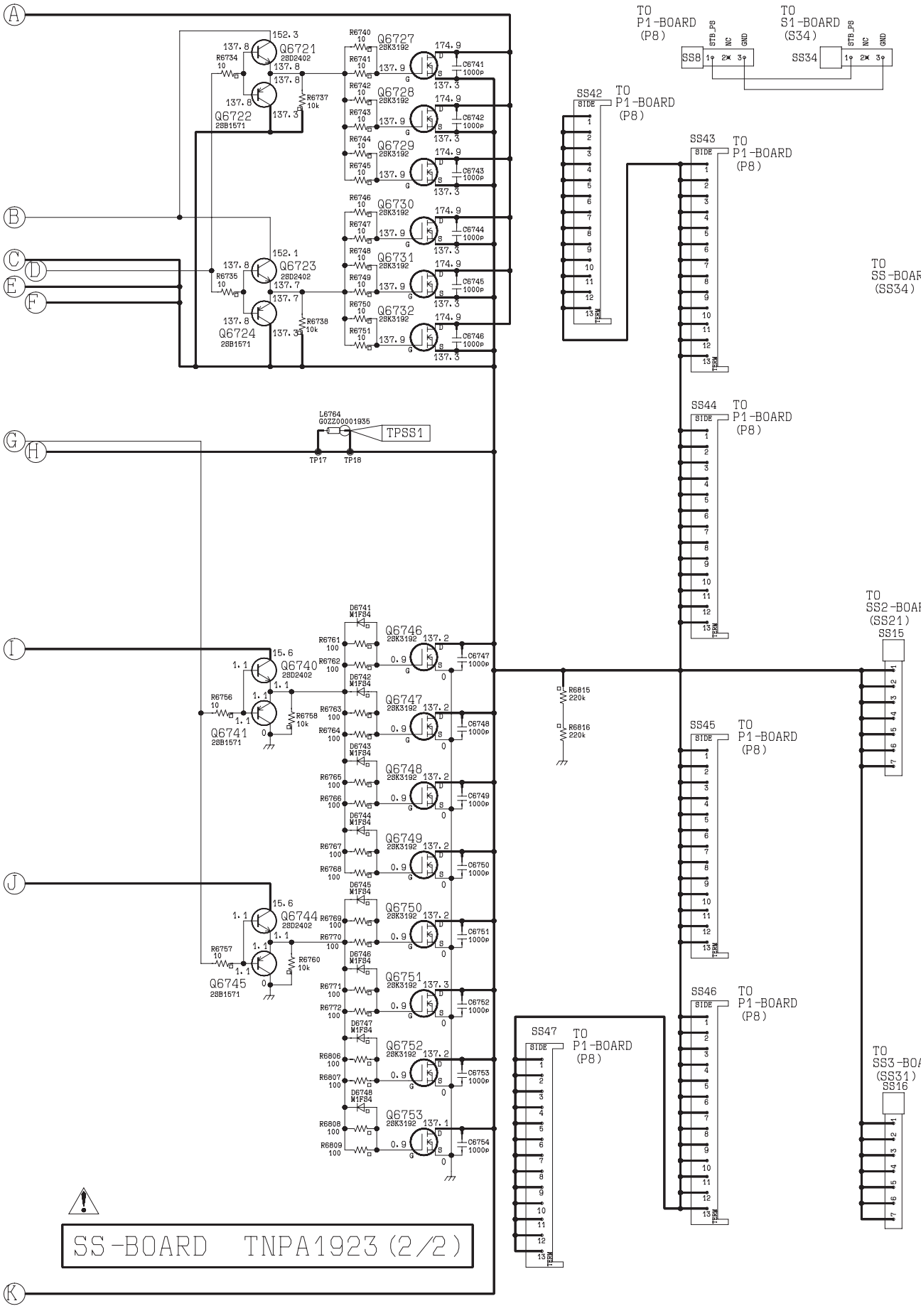
## 13.78. SS-Board (1 of 2) Schematic Diagram



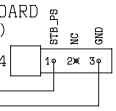
(1/2)

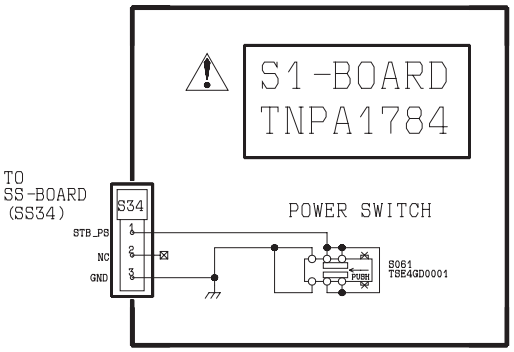

TPSS2
TPPR1
TPVe
TPVe2
IC6705
C0ZBZ0000138
UMH
UML
IC6712
C0BBBA000043
AN6914S-E1
IC6709
AN1431M
IC6706
C0ZBZ0000138
UEL
IC6707
C0ZBZ0000138
UEH
Q6703
Q6704
Q6705
Q6706
Q6701
Q6702
Q6714
Q6715
Q6716
Q6717
Q6712
Q6713
Q6777
Q6778
Q6779
Q6761
Q6762
Q6765
Q6766
Q6763
Q6764
A
B
C
D
E
F
G
H
I
J
K
4
5
6
7

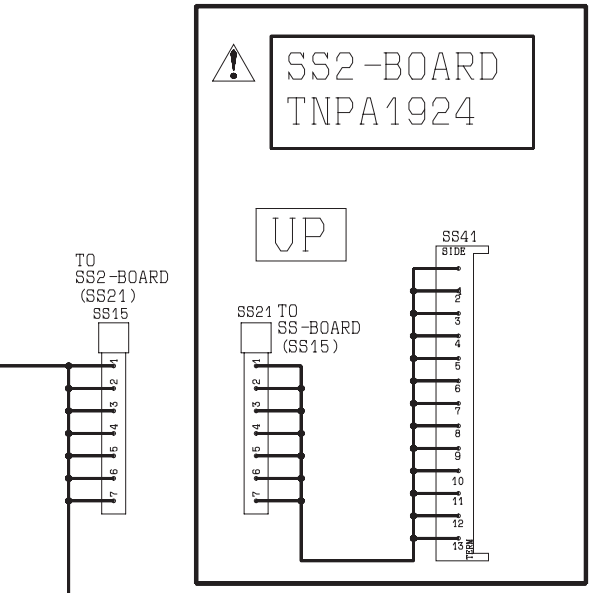
# 13.79. SS-Board (2 of 2) SS2-Board, SS3-Board and S1-Board Schematic Diagram

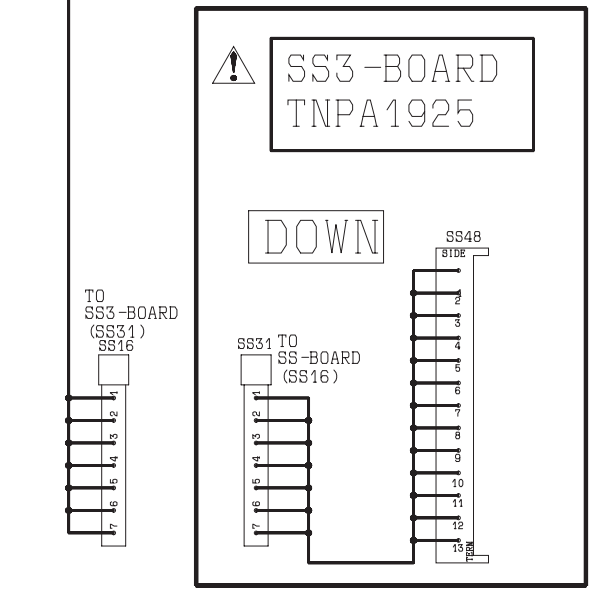


# Diagram



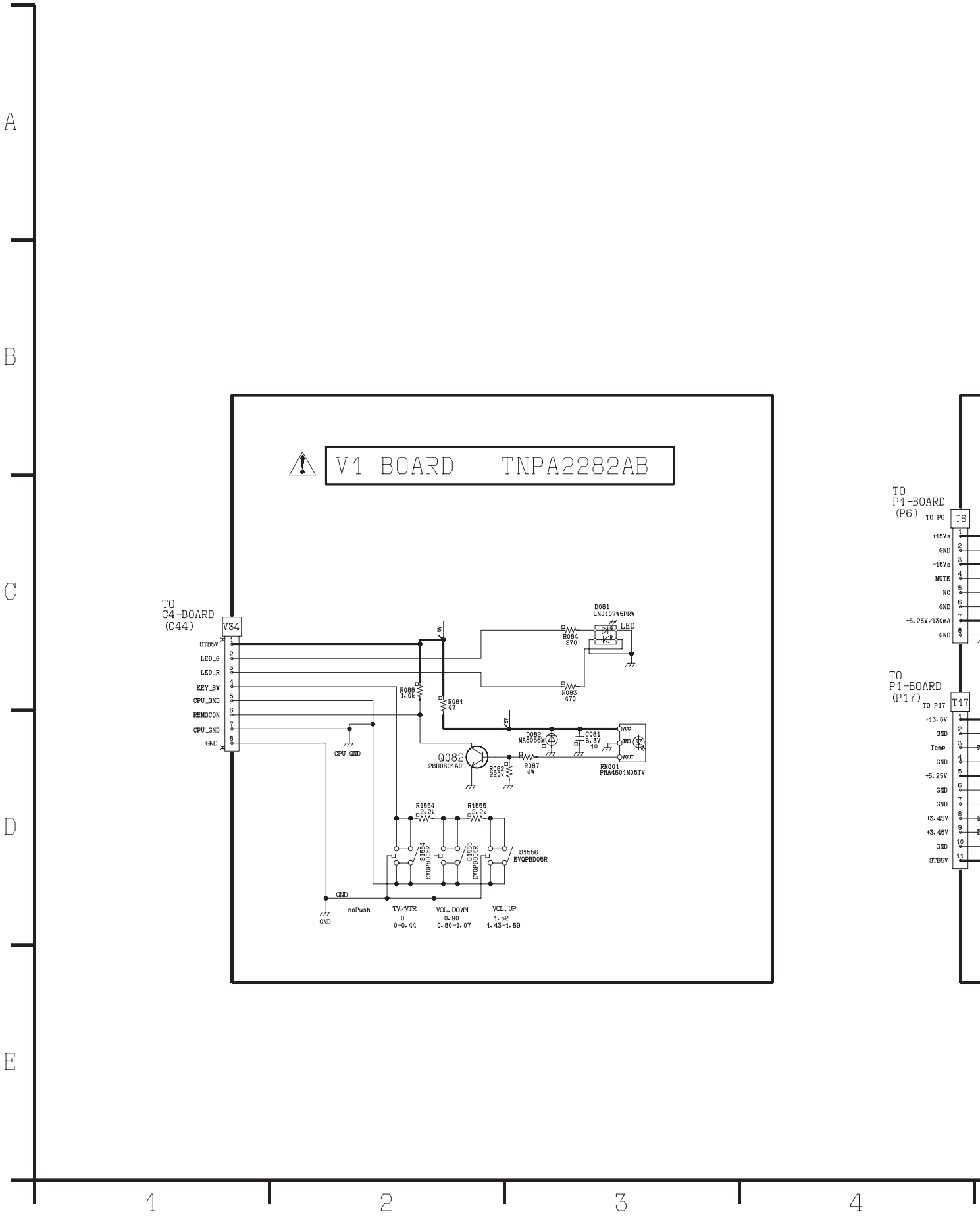



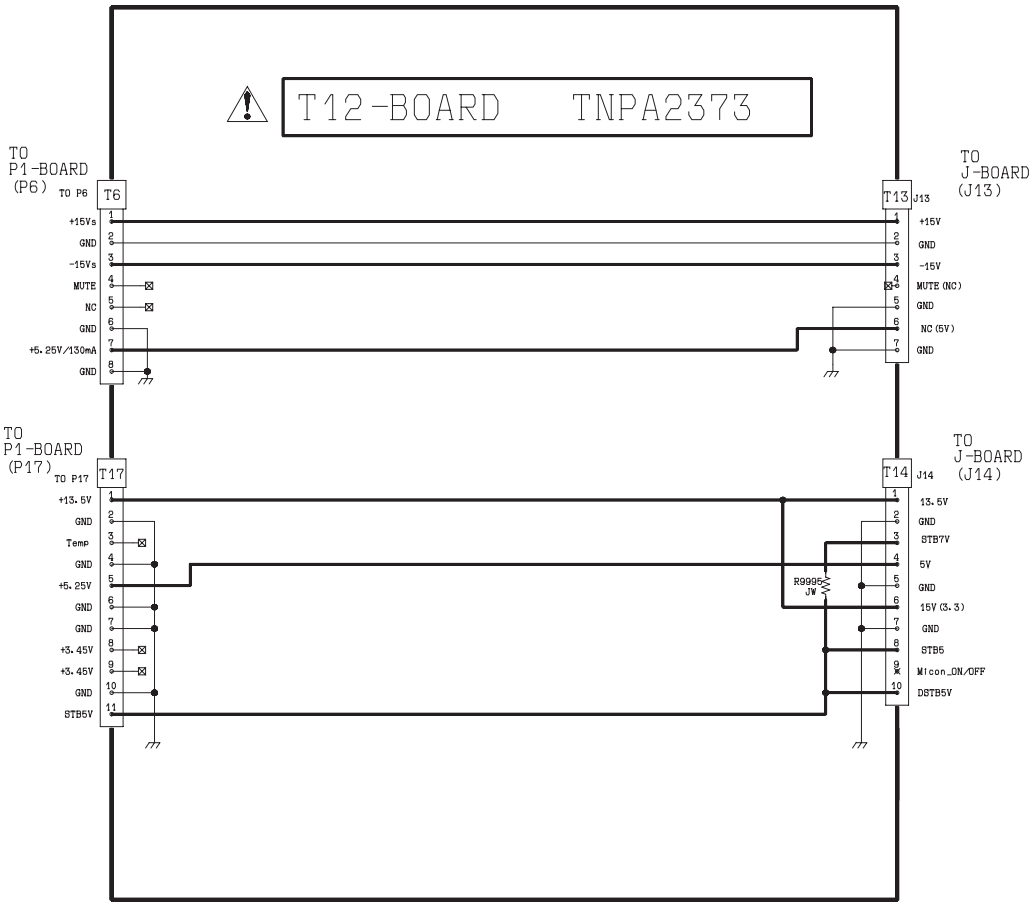




10 11 12 13

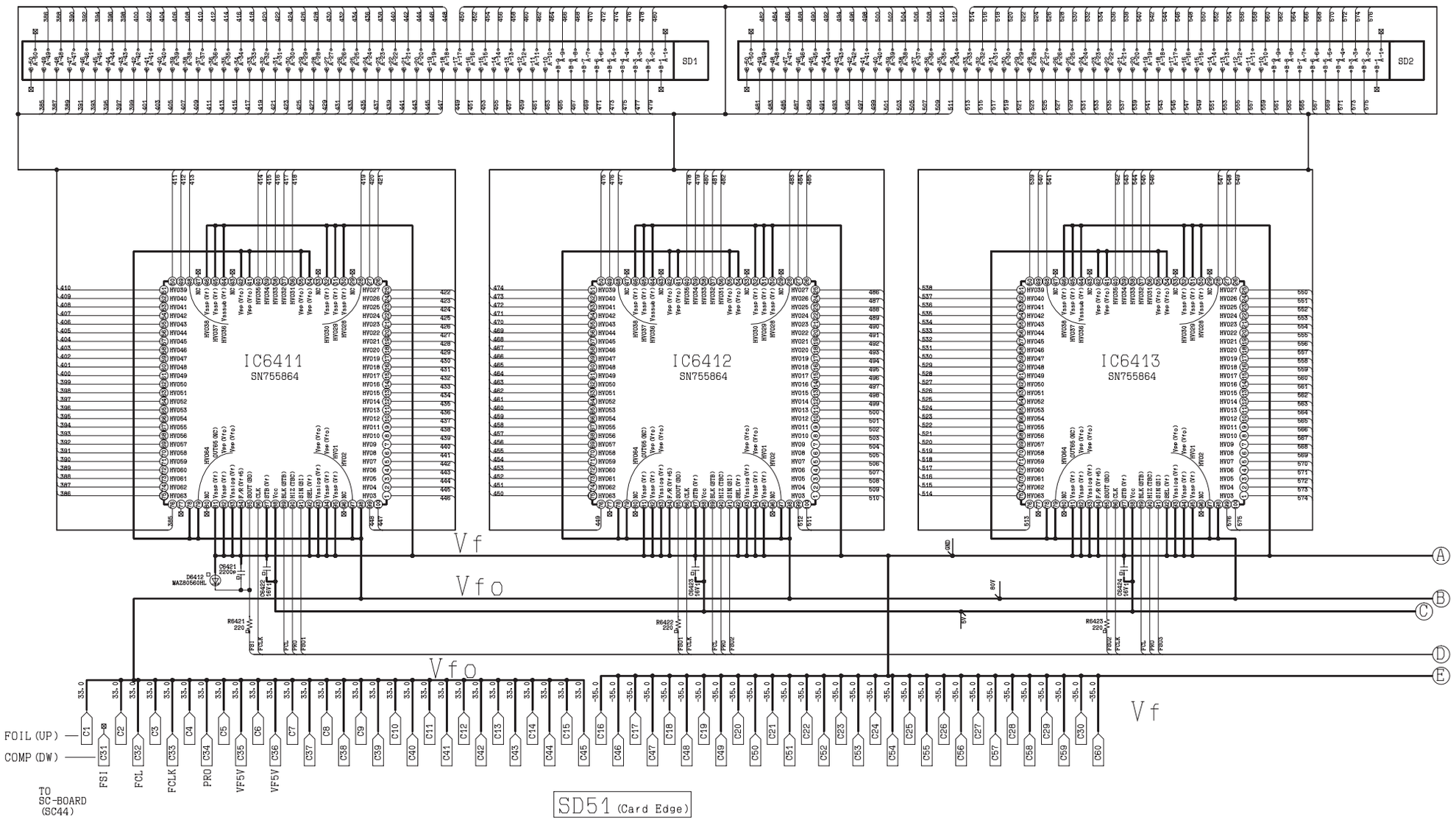
# 13.80. T12 and V1-Board Schematic Diagram




T12-BOARD TNPA2373
TO P1-BOARD (P6)
TO P6
T6
+15Vs
GND
-15Vs
MUTE
NC
GND
+5.25V/130mA
GND
T13
J13
+15V
GND
-15V
MUTE (NC)
GND
NC (5V)
GND
TO J-BOARD (J13)
TO P1-BOARD (P17)
TO P17
T17
+13.5V
GND
Temp
GND
+5.25V
GND
GND
+3.45V
+3.45V
GND
STB5V
T14
J14
13.5V
GND
STB7V
5V
GND
15V(3.3)
GND
STB5
Micon_ON/OFF
DSTB5V
R9995
JW
TO J-BOARD (J14)

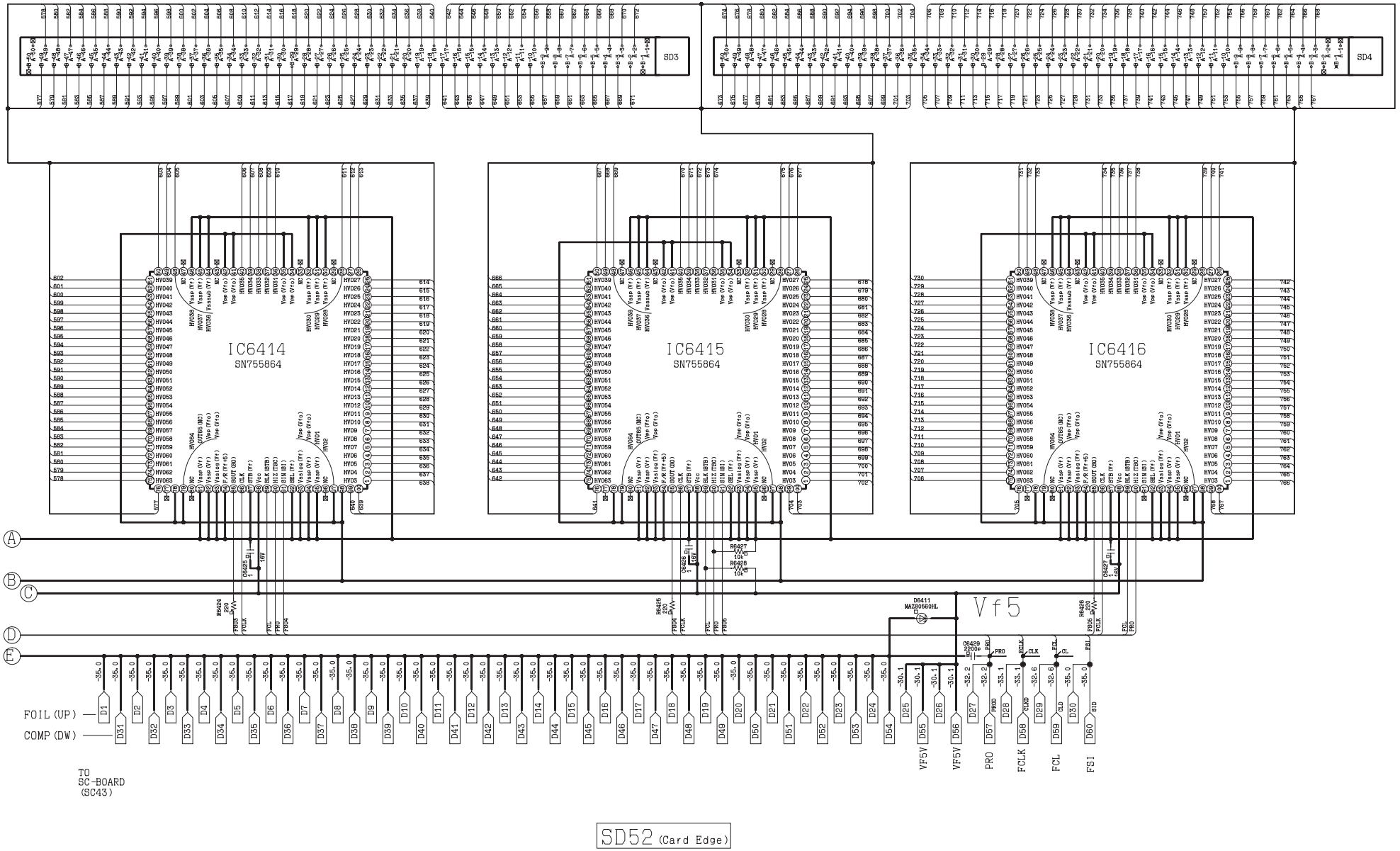
5 6 7

# ⚠ SD-BOARD TNPA1921 (1/2)



# SD-BOARD TNPA1921(2/2)

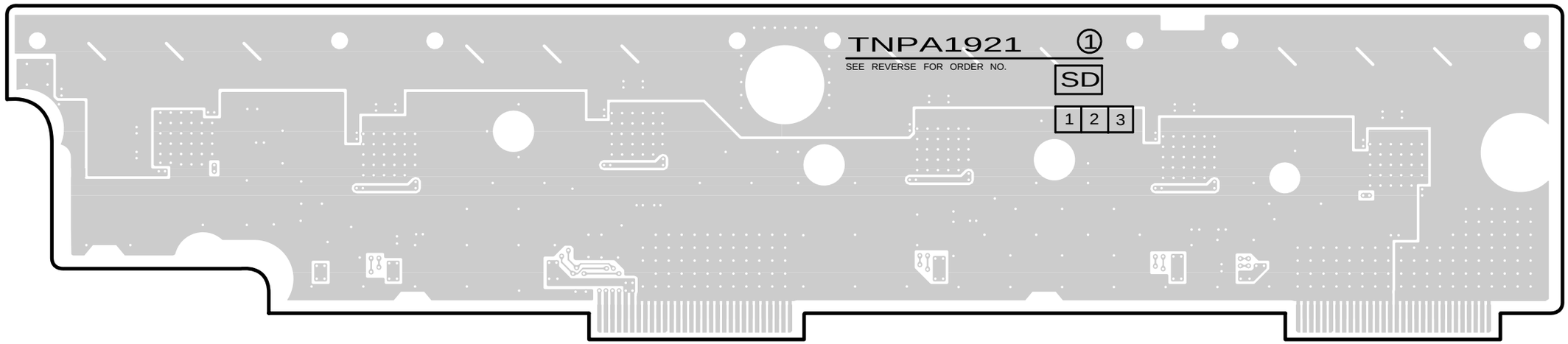
DOWN



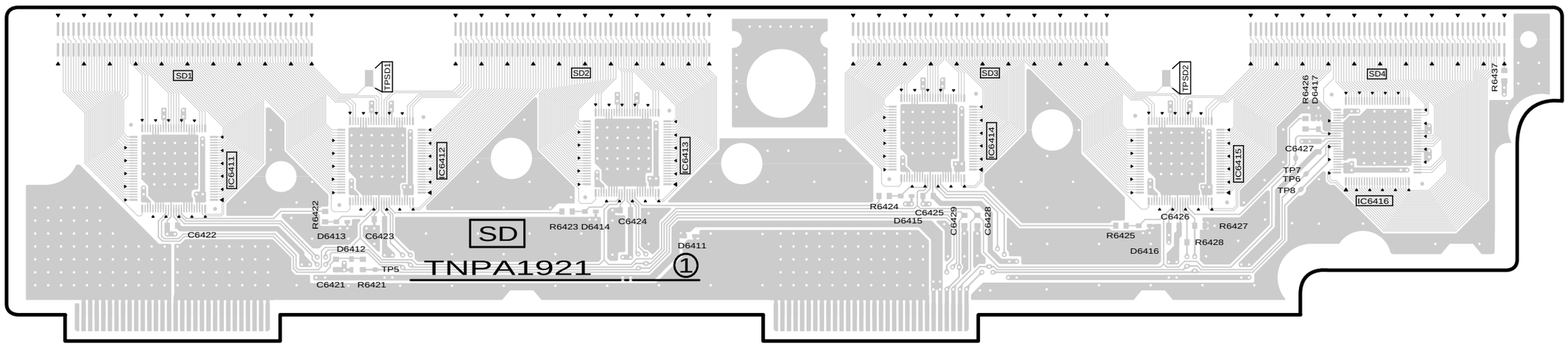

SD52 (Card Edge)

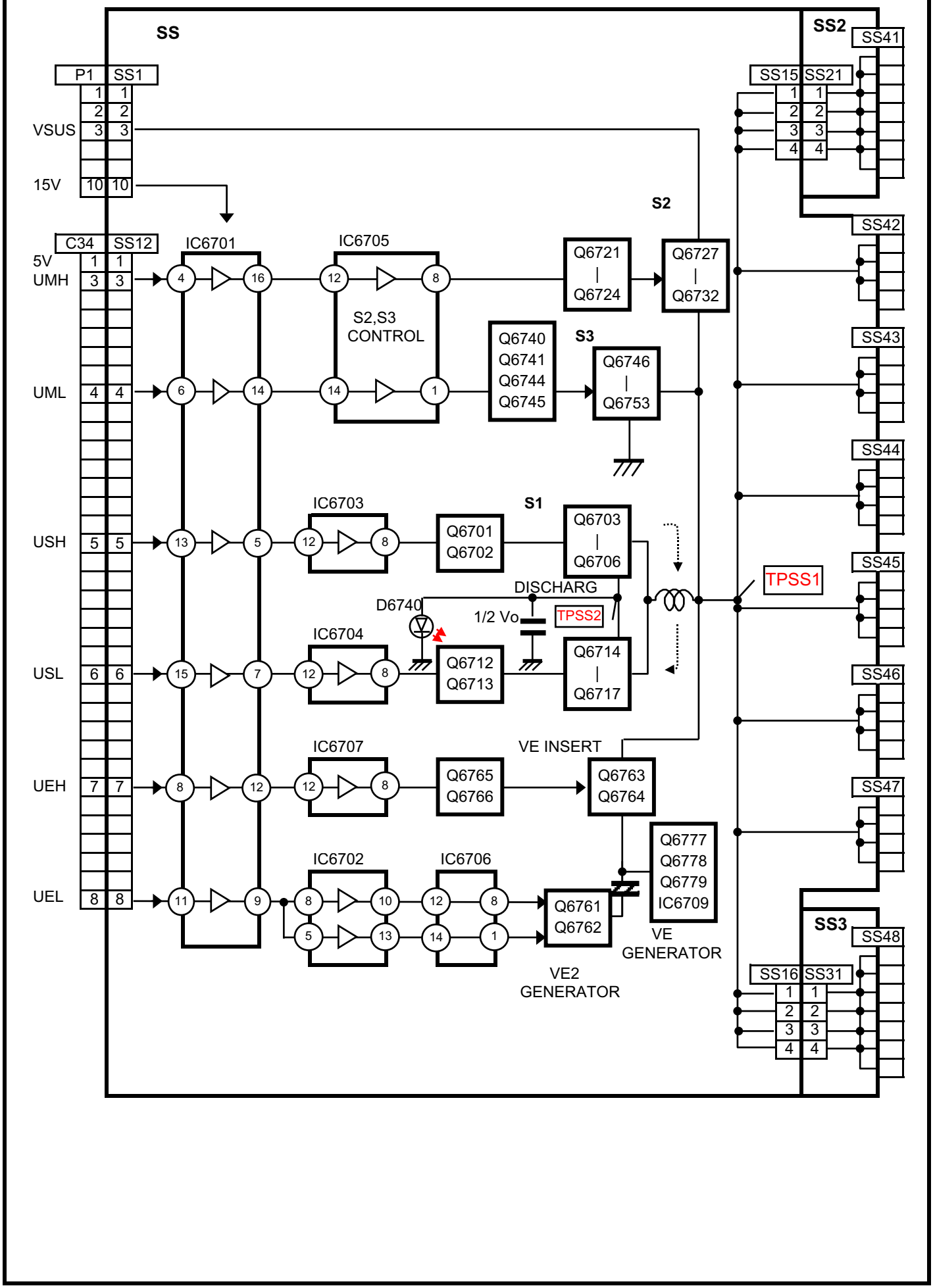
8 9 10 11 12 13 14

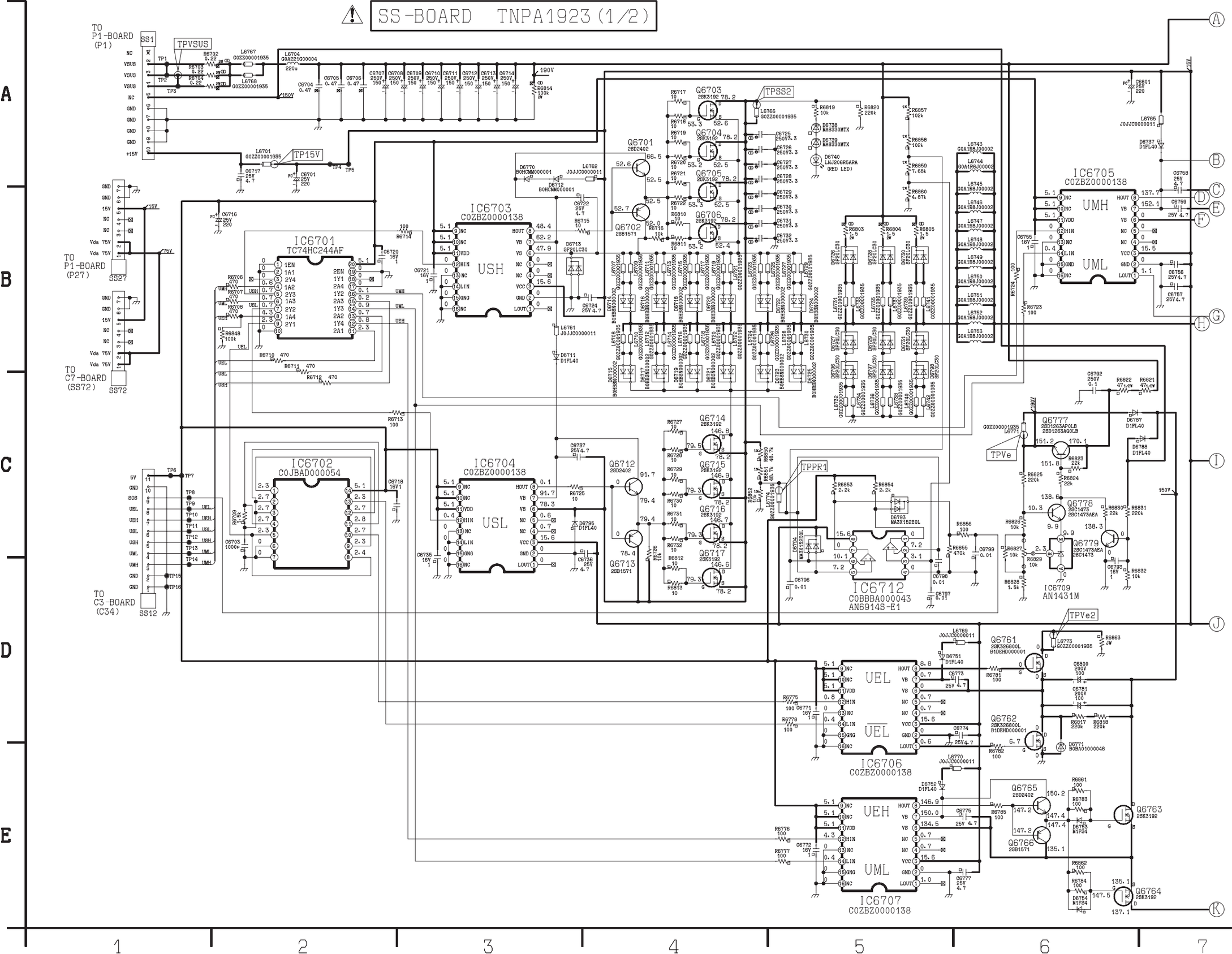
**SD-BOARD (FOIL SIDE)**
**TNPA1921**



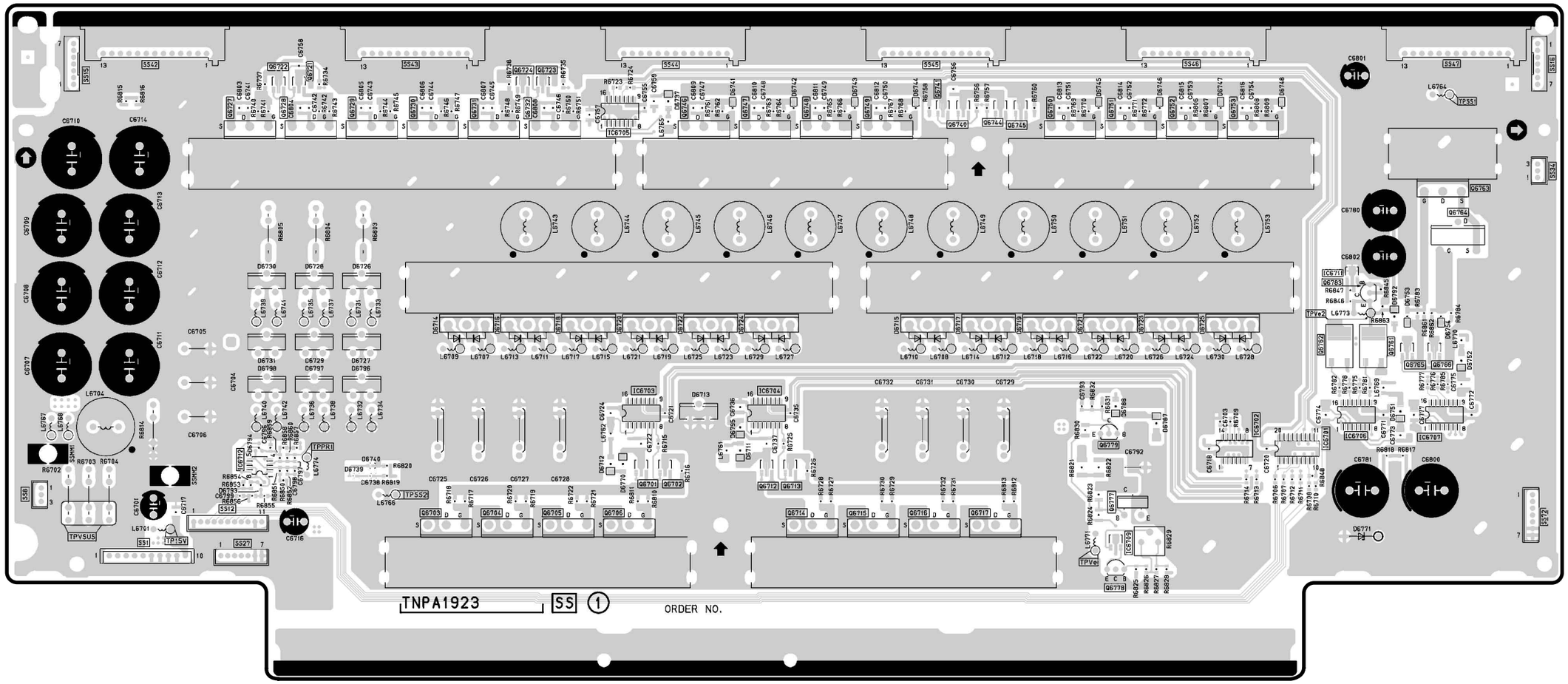

**SD-BOARD (COMPONENT SIDE)**
**TNPA1921**



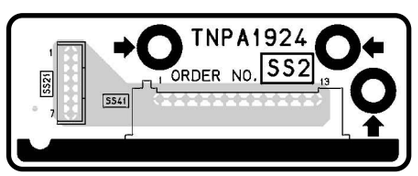

SS
SS2
P1
SS1
SS41
SS15
SS21
VSUS
15V
S2
C34
SS12
IC6701
IC6705
5V
UMH
Q6721
|
Q6724
Q6727
|
Q6732
SS42
S2,S3
CONTROL
Q6740
Q6741
Q6744
Q6745
S3
SS43
UML
Q6746
|
Q6753
SS44
IC6703
S1
USH
Q6701
Q6702
Q6703
|
Q6706
SS45
TPSS1
DISCHARG
D6740
1/2 Vo
TPSS2
IC6704
USL
Q6712
Q6713
Q6714
|
Q6717
SS46
IC6707
VE INSERT
UEH
Q6765
Q6766
Q6763
Q6764
SS47
Q6777
Q6778
Q6779
IC6709
IC6702
IC6706
UEL
Q6761
Q6762
VE
GENERATOR
SS3
SS48
SS16
SS31
VE2
GENERATOR


SS-BOARD TNPA1923 (1/2)
TO P1-BOARD (P1)
SS1
TPVSUS
TP15V
TPSS2
TPPR1
TPVe
TPVe2
IC6701 TC74HC244AF
IC6702 C0JBAD000054
IC6703 C0ZBZ0000138 USH
IC6704 C0ZBZ0000138 USL
IC6705 C0ZBZ0000138 UMH UML
IC6706 C0ZBZ0000138 UEL UEL
IC6707 C0ZBZ0000138 UEH UML
IC6709 AN1431M
IC6712 C0BBBA000043 AN6914S-E1
TO P1-BOARD (P27)
SS27
TO C7-BOARD (SS72)
SS72
TO C3-BOARD (C34)
SS12
Q6701 2SD2402
Q6702 2SB1571
Q6703 2SK3192
Q6704 2SK3192
Q6705 2SK3192
Q6706 2SK3192
Q6712 2SD2402
Q6713 2SB1571
Q6714 2SK3192
Q6715 2SK3192
Q6716 2SK3192
Q6717 2SK3192
Q6761 2SK326800L B1DEHD000001
Q6762 2SK326800L B1DEHD000001
Q6763 2SK3192
Q6764 2SK3192
Q6765 2SD2402
Q6766 2SB1571
Q6777 2SD1263AP0LB 2SD1263AQ0LB
Q6778 2SC1473 2SC1473AEA
Q6779 2SC1473AEA 2SC1473
D6740 LNJ206R5ARA (RED LED)
D6738 MA8330MTX
D6739 MA8330MTX
D6793 MA5X152E0L
D6794 MA5X152E0L
D6771 B0BA01000046
D6764 W1FB4
D6765 W1FB4
D6784 W1FB4
IC6701 1EN 1A1 2Y4 1A2 2Y3 1A3 2Y2 1A4 2Y1 2EN 1Y1 2A4 1Y2 2A3 1Y3 2A2 1Y4 2A1
IC6702 2.3 2.7 2.7 2.7 2.3 2.7 2.8 2.7 2.3 2.4
IC6703 USH HOUT 48.4 VB 62.2 VS 47.9 NC 0 NC 15.6 VCC 0 GND 0 LOUT 0
IC6704 USL HOUT 0.1 VB 91.7 VS 78.3 NC 0.6 NC 0.7 VCC 15.6 GND 0 LOUT 0
IC6705 UMH HOUT 137.7 VB 152.1 VS 0 NC 0 NC 15.5 VCC 0 GND 1.1 LOUT
IC6706 UEL HOUT 8.8 VB 0.7 VS 0.7 NC 0.7 NC 15.6 VCC 0 GND 0.6 LOUT
IC6707 UML HOUT 146.9 VB 150.0 VS 134.5 NC 0.7 NC 0.7 VCC 15.6 GND 0 LOUT 1.0
IC6709 AN1431M
IC6712 C0BBBA000043 AN6914S-E1
IC6705 C0ZBZ0000138
IC6706 C0ZBZ0000138
IC6707 C0ZBZ0000138

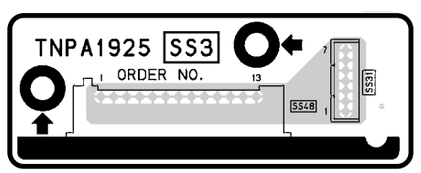
## SS-BOARD (COMPONENT SIDE)
## TNPA1923



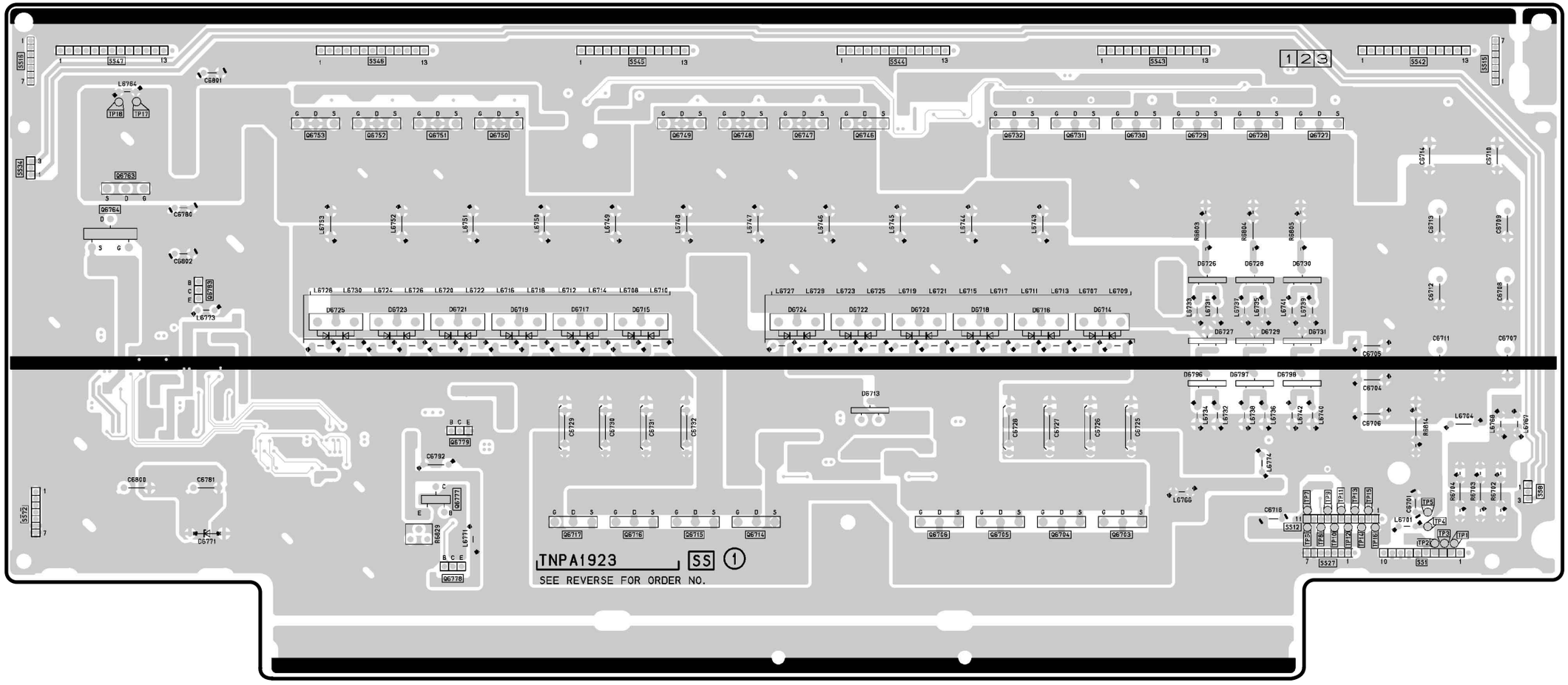

## SS2-BOARD (COMPONENT SIDE)
## TNPA1924



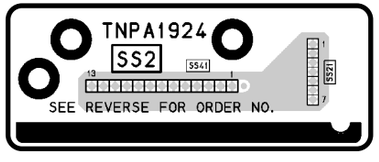

## SS3-BOARD (COMPONENT SIDE)
## TNPA1925



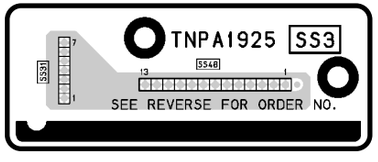
## SS-BOARD (FOIL SIDE)
## TNPA1923

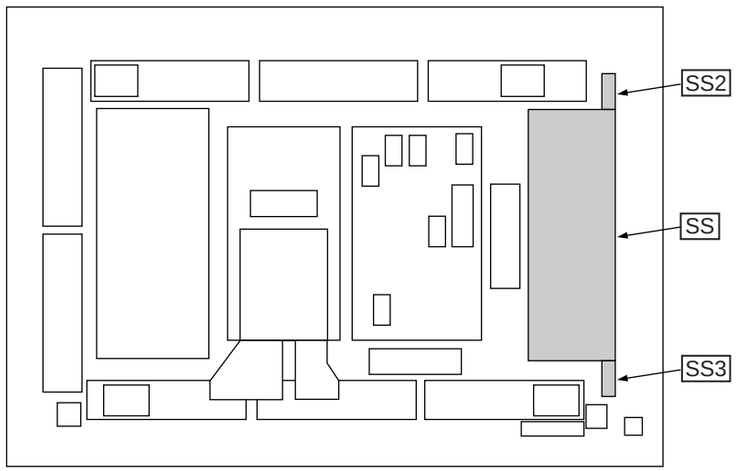



## SS2-BOARD (FOIL SIDE)
## TNPA1924




## SS3-BOARD (FOIL SIDE)
## TNPA1925






## PARTS LOCATION

### SS-BOARD (FOIL SIDE)

| TRANSISTOR | |
|---|---|
| Q6703 | F-3 |
| Q6704 | F-3 |
| Q6705 | F-3 |
| Q6706 | F-3 |
| Q6714 | E-3 |
| Q6715 | D-3 |
| Q6716 | D-3 |
| Q6717 | D-3 |
| Q6727 | G-5 |
| Q6728 | G-5 |
| Q6729 | G-5 |
| Q6730 | F-5 |
| Q6731 | F-5 |
| Q6732 | F-5 |
| Q6746 | E-5 |
| Q6747 | E-5 |
| Q6748 | E-5 |
| Q6749 | D-5 |
| Q6750 | C-5 |
| Q6751 | C-5 |
| Q6752 | C-5 |
| Q6753 | C-5 |
| Q6764 | A-5 |
| Q6769 | B-5 |
| Q6777 | C-3 |
| Q6778 | C-3 |
| Q6779 | C-4 |
| Q6783 | B-4 |

| TEST POINT | |
|---|---|
| TP1 | H-1 |
| TP2 | H-1 |
| TP3 | H-1 |
| TP4 | H-1 |
| TP5 | H-1 |
| TP6 | G-3 |
| TP7 | G-3 |
| TP8 | G-3 |
| TP9 | G-3 |
| TP10 | G-3 |
| TP11 | G-3 |
| TP12 | H-1 |
| TP13 | H-1 |
| TP14 | H-1 |
| TP15 | H-1 |
| TP17 | B-5 |
| TP18 | B-5 |

ADDRESS INFORMATION

## PARTS LOCATION

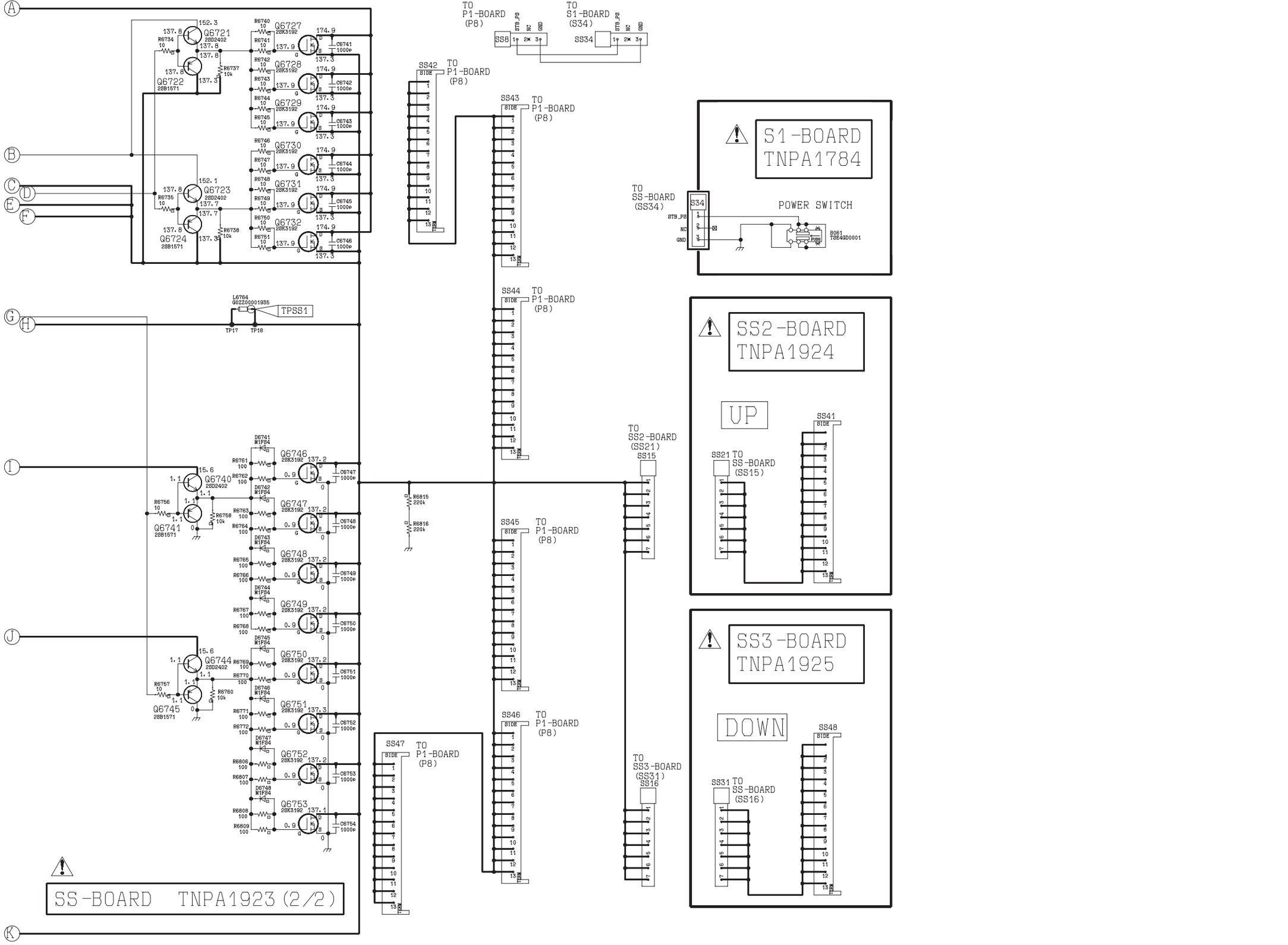
### SS-BOARD (COMPONENT SIDE)

| IC | |
|---|---|
| IC6701 | G-3 |
| IC6702 | G-4 |
| IC6703 | D-4 |
| IC6704 | E-4 |
| IC6705 | D-5 |
| IC6706 | H-4 |
| IC6707 | H-4 |
| IC6709 | F-3 |
| IC6711 | G-4 |
| IC6712 | B-3 |

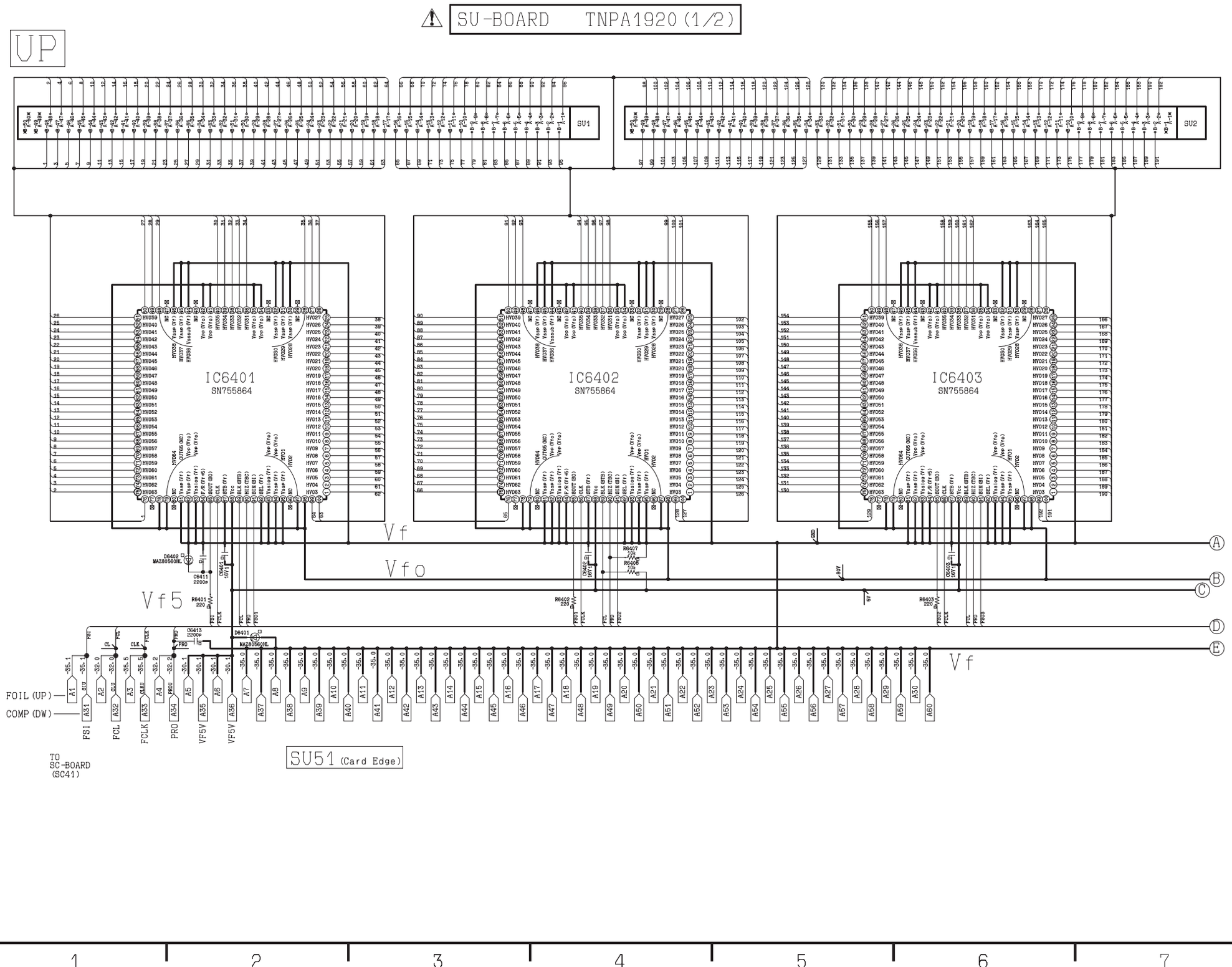
| TRANSISTOR | |
|---|---|
| Q6701 | D-3 |
| Q6702 | D-3 |
| Q6703 | C-3 |
| Q6704 | C-3 |
| Q6705 | D-3 |
| Q6706 | D-3 |
| Q6712 | E-3 |
| Q6713 | E-3 |
| Q6714 | E-3 |
| Q6715 | E-3 |
| Q6716 | E-3 |
| Q6717 | F-3 |
| Q6721 | B-5 |
| Q6722 | B-5 |
| Q6723 | D-5 |
| Q6724 | D-5 |
| Q6727 | B-5 |
| Q6728 | B-5 |
| Q6729 | C-5 |
| Q6730 | C-5 |
| Q6731 | C-5 |
| Q6732 | D-5 |
| Q6740 | F-5 |
| Q6741 | F-5 |
| Q6744 | F-5 |
| Q6746 | D-5 |
| Q6747 | E-5 |
| Q6748 | E-5 |
| Q6749 | E-5 |
| Q6750 | F-5 |
| Q6751 | F-5 |
| Q6752 | G-5 |
| Q6753 | G-5 |
| Q6761 | H-4 |
| Q6762 | G-4 |
| Q6763 | H-5 |
| Q6764 | H-5 |
| Q6765 | H-4 |
| Q6766 | H-4 |
| Q6777 | F-3 |
| Q6778 | F-3 |
| Q6779 | F-3 |
| Q6783 | G-4 |

| TEST POINT | |
|---|---|
| TP15V | B-3 |
| TPPR1 | B-3 |
| TPSS1 | H-5 |
| TPSS2 | C-3 |
| TPVe | F-3 |
| TPVe2 | G-4 |
| TPVSUS | A-3 |

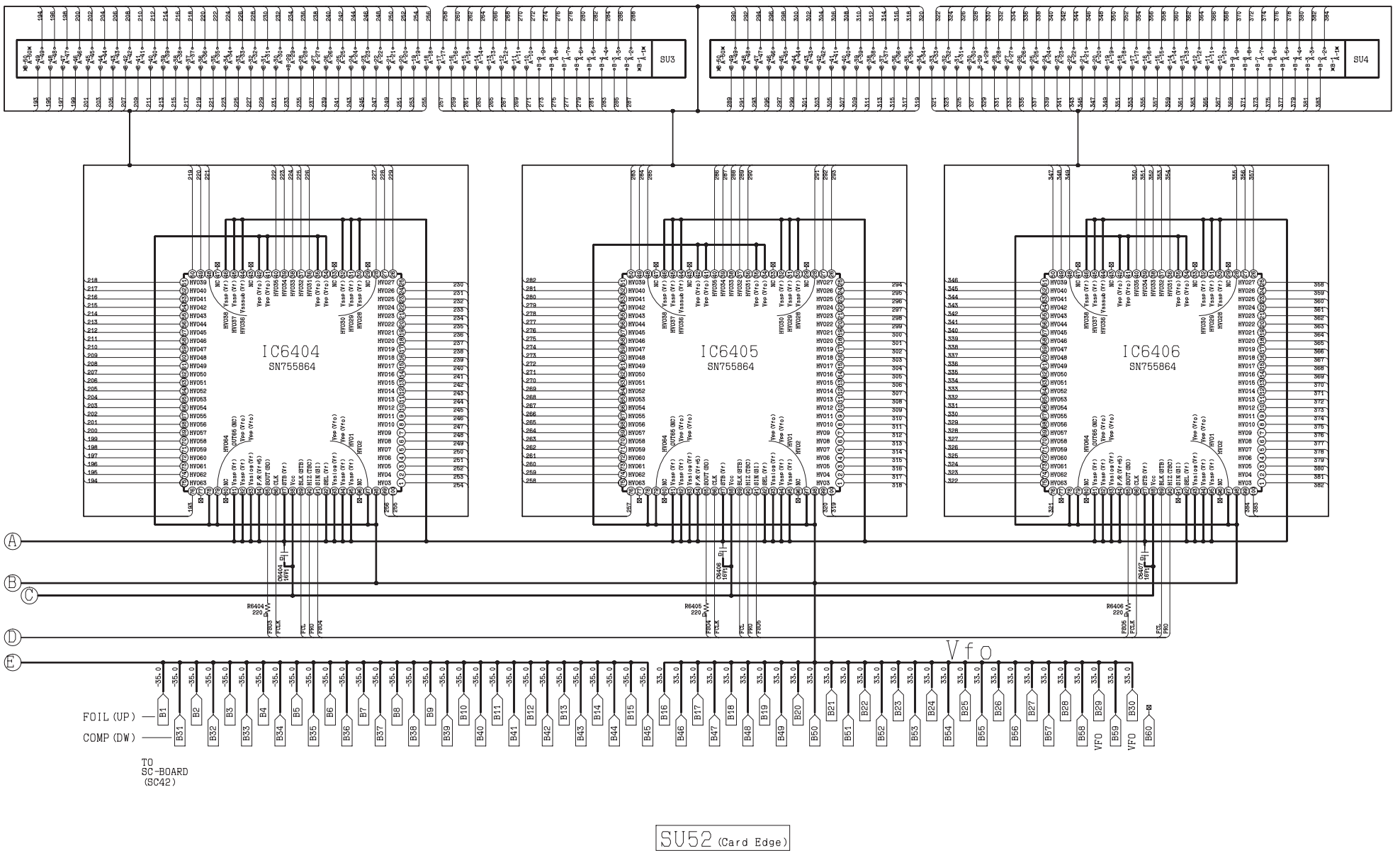
ADDRESS INFORMATION



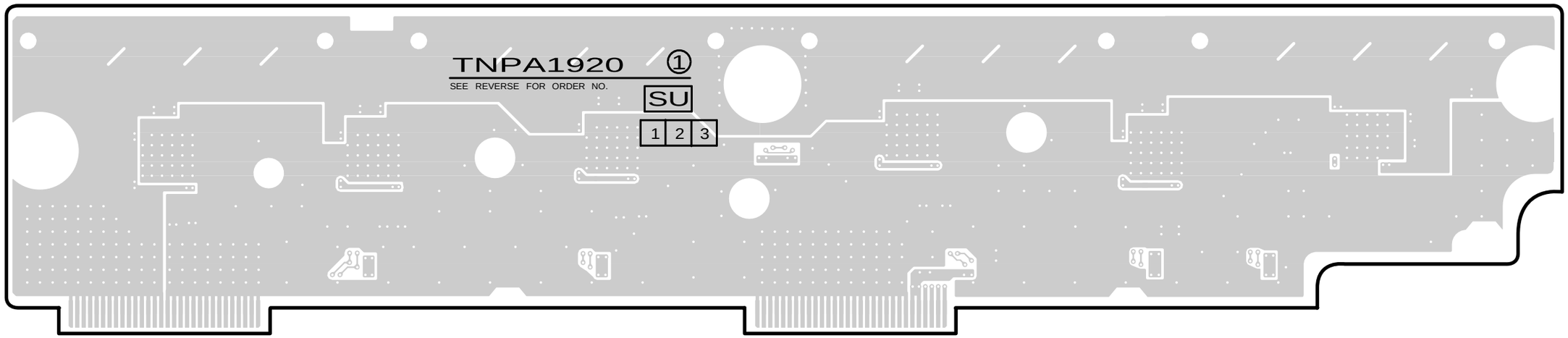

7 8 9 10 11 12 13


SU-BOARD TNPA1920 (1/2)
UP
SU1
SU2
IC6401
SN755864
IC6402
SN755864
IC6403
SN755864
Vf
Vfo
Vf5
D6402
MAZ80560HL
D6401
MAZ80560HL
D6413
MAZ80560HL
C6411
2200P
R6401
220
R6402
220
R6403
220
R6407
10K
R6408
10K
8.6V
5V
FOIL (UP)
COMP (DW)
FSI
FCL
FCLK
PRO
VF5V
VF5V
TO
SC-BOARD
(SC41)
SU51 (Card Edge)

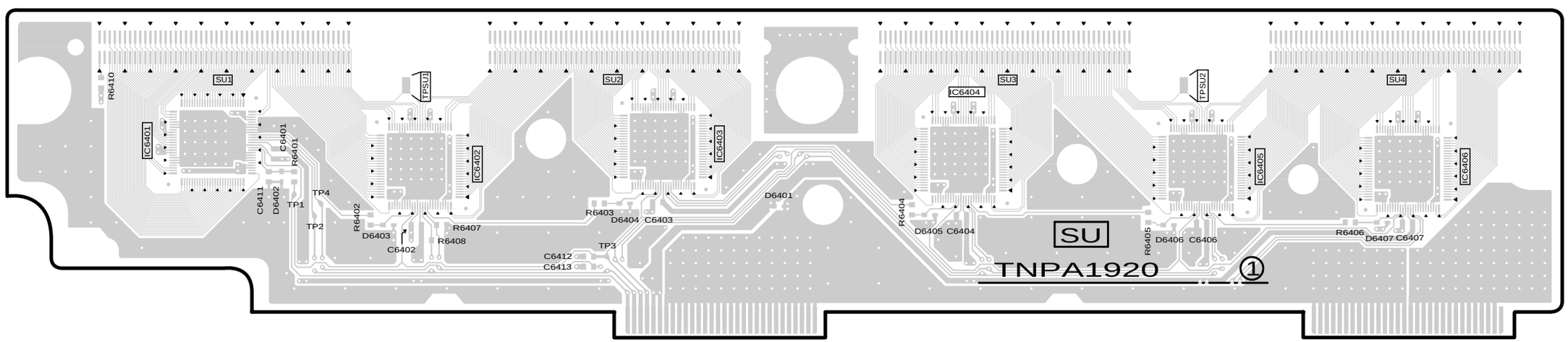
# ⚠ SU-BOARD TNPA1920 (2/2)

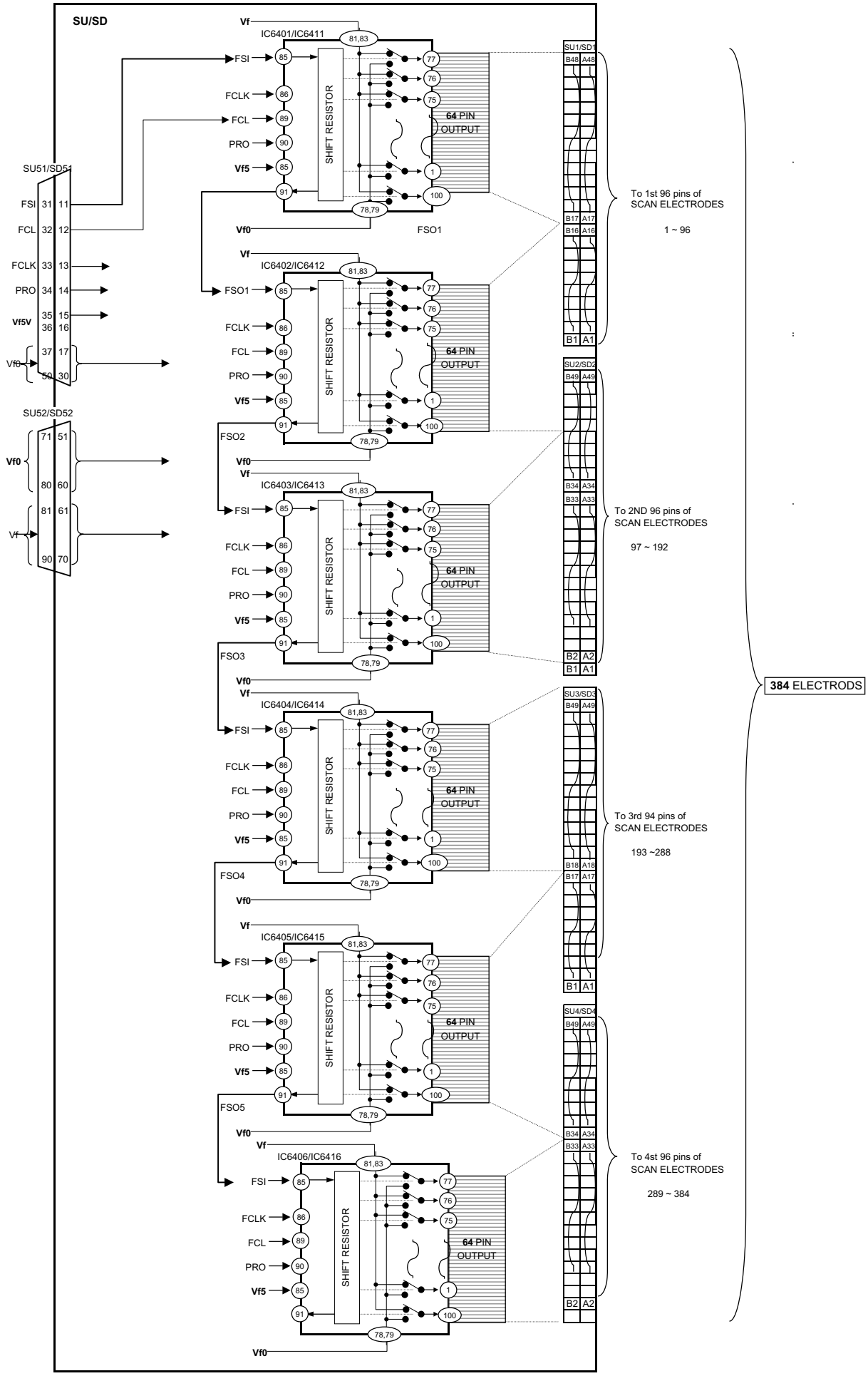


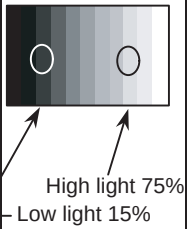
**SU-BOARD (FOIL SIDE)**
**TNPA1920**

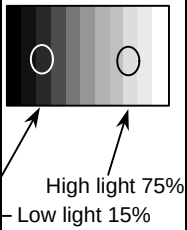



**SU-BOARD (COMPONENT SIDE)**
**TNPA1920**




SU/SD
SU51/SD51
SU52/SD52
FSI
FCL
FCLK
PRO
Vf5V
Vf0
Vf
IC6401/IC6411
IC6402/IC6412
IC6403/IC6413
IC6404/IC6414
IC6405/IC6415
IC6406/IC6416
SHIFT RESISTOR
64 PIN OUTPUT
FSO1
FSO2
FSO3
FSO4
FSO5
SU1/SD1
SU2/SD2
SU3/SD3
SU4/SD4
To 1st 96 pins of SCAN ELECTRODES
1 ~ 96
To 2ND 96 pins of SCAN ELECTRODES
97 ~ 192
To 3rd 94 pins of SCAN ELECTRODES
193 ~288
To 4st 96 pins of SCAN ELECTRODES
289 ~ 384
384 ELECTRODS

| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 1 | NTSC<br>Gray Scale<br>Pattern<br>  <br> | Color<br>Analyzer | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Sub Adjust<br>Sub Bright<br>PANEL W/B<br>G cut off<br>PANEL W/B<br>B cut off<br>R cut off<br>Sub Adjust<br>Sub Bright<br>PANEL W/B<br>G Drive<br>PANEL W/B<br>B Drive<br>R Drive<br>PANEL W/B<br>R,G,B Drive<br>R,G,B Drive<br>PANEL W/B<br>R,G,B cut off | 1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor.<br>2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly.<br>3) Set G cut off to " 80 ".<br>4) Adjust B and R cut off to set color temperature as shown Fig.-01.<br>5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2.<br>6)Find 75% of white area by color sensor.<br>7) Set G Drive to " D8 ".<br>8) Adjust B and R Drive to set color temperature as shown Fig.-01.<br>9) Repeat item 4) to 7) to set both Low light and high light.<br>10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".<br>11) Re-adjust Low light level again.<br><br>Color Temp. / x / y<br>Cool(Hi) / 0.272 / 0.290<br>Normal(Mid) / 0.288 / 0.296<br>Warm(Low) / 0.313 / 0.329<br>Fig. -01 |
| 2 | | | Picture:<br>Normal<br>White balance:<br>**Normal**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Normal".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 3 | | | Picture:<br>Normal<br>White balance:<br>**Warm**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Warm".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 4 | | | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Picture Menu<br>Sub Adjust<br>Sub Bright | 1) Change color templature to "Cool".<br>2)Re-set Sub bright to "30" |

| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 1 | PAL<br>Gray Scale<br>Pattern<br>  <br> | Color<br>Analyzer | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Sub Adjust<br>Sub Bright<br>PANEL W/B<br>G cut off<br>PANEL W/B<br>B cut off<br>R cut off<br>Sub Adjust<br>Sub Bright<br><br><br>PANEL W/B<br>G Drive<br>PANEL W/B<br>B Drive<br>R Drive<br><br><br><br>PANEL W/B<br>R,G,B Drive<br>R,G,B Drive<br>PANEL W/B<br>R,G,B cut off | 1) Find the nearest area to brightness of 10 cd/$m_2$ as Low light by color sensor.<br>2) Adjust Sub bright to set Low light level to 10 cd/$m_2$ exactly.<br>3) Set G cut off to " 80 ".<br>4) Adjust B and R cut off to set color temperature as shown Fig.-02.<br>5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/$m_2$.<br>6)Find 75% of white area by color sensor.<br>7) Set G Drive to " D8 ".<br>8) Adjust B and R Drive to set color temperature as shown Fig.-02.<br>9) Repeat procedure 4) to 7) to set both Low light and high light.<br>10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".<br>11) Re-adjust Low light level again.<br><br>Fig. -02 |
| 2 | | | Picture:<br>Normal<br>White balance:<br>**Normal**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Normal".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 3 | | | Picture:<br>Normal<br>White balance:<br>**Warm**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change white balance to "Warm".<br>2) Repeat procedure 3) to 11) of Cool mode. |
| 4 | | | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | Picture Menu<br>Sub Adjust<br>Sub Bright | 1) Change color templature to "Cool".<br>2)Re-set Sub bright to "30" |

| Color Temp. | x | y |
|---|---|---|
| Cool(Hi) | 0.272 | 0.290 |
| Normal(Mid) | 0.288 | 0.296 |
| Warm(Low) | 0.313 | 0.329 |

<table>
<tr><th></th><th></th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>SECAM signal</td><td></td><td>Picture:<br>Normal<br>Aspect:<br>16:9<br><br>White balance:<br>Cool<br>Normal<br>Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.<br><br><table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table><br>2) Input SECAM signal.<br><br>3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.</td></tr>
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| | INPUT | Equipment | Setting | Alignment menu | Procedure |
|---|---|---|---|---|---|
| 1 | Component<br>(525i, 525p, 625i, 720i or 1080i)<br><br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | PANEL W/B<br>R cut off<br>G cut off<br>B cut off<br>Chroma Control:<br>Gun off<br>RGB Sub Adjust:<br>G Sub Bright<br><br>Chroma Control:<br>Gun off<br>RGB Sub Adjust:<br>B Sub Bright<br><br>Chroma Control:<br>Gun off<br>RGB Sub Adjust:<br>R Sub Bright | ** Adjust at the dark room.<br><br>1) Set R,G and B cut off to " **80** ".<br><br>2) Set Gun off to "**5**". (Only green pixels can emit.)<br><br>3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area.<br><br>4) Set Gun off to "**3**". (Only blue pixels can emit.)<br><br>5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area.<br><br>6) Set Gun off to "**6**". (Only red pixels can emit.)<br><br>7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area. |
| 2 | RGB(PC)<br>Gray Scale<br>Pattern<br>  <br> | | Picture:<br>Normal<br>White balance:<br>**Cool**<br>Aspect:<br>16:9 | PANEL W/B<br>R,G,B cut off<br>PANEL W/B<br>R,G,B Drive | 1) Change input to RGB signal.<br><br>2) Repeat procedure 1) to 7) of Component input signal. |